

Incident ID	nAPP2135135752
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>105</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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


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

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

Oil Conservation Division

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

Printed Name: Rob Kirk Title: General Manager, HSE & Compliance
Signature:  Date: 10/30/23
email: rob.kirk@solarismidstream.com Telephone: (575)748-1553

OCD Only

Received by: Shelly Wells Date: 10/30/2023

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Closure

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

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

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

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

Printed Name: Rob Kirk Title: General Manager, HSE & Compliance
Signature:  Date: 10/30/23
email: rob.kirk@solarismidstream.com Telephone: (575)748-1553

OCD Only

Received by: Shelly Wells Date: 10/30/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

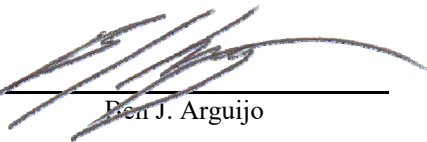
Remediation Summary & Soil Closure Request

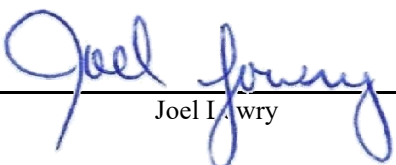
Solaris Water Midstream, LLC Lobo 285 SWD Water Reuse

Eddy County, New Mexico
Unit Letter "A", Section 22, Township 25 South, Range 28 East
Latitude 32.121830 North, Longitude 104.070718 West
NMOCD Reference No. nAPP2135135752

Prepared By:

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


Ben J. Arguijo


Joel Lawry



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 (Solaris), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Lobo 285 SWD Water Reuse (henceforth, "Lobo 285 SWD"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.121830 Longitude: -104.070718

Provided GPS are in WGS84 format.

Site Name:	Lobo 285 SWD Water Reuse	Site Type:	Salt Water Disposal (SWD)
Date Release Discovered:	12/16/2021	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"A"	22	25S	28E	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) 202	Volume Recovered (bbls) 200
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

Coupling failure. The produced water release was captured in the secondary containment. Approximately 200 bbls were recovered. Two (2) bbls were outside of the secondary containment.

Initial Response

<input checked="" type="checkbox"/>	The source of the release has been stopped.
<input checked="" type="checkbox"/>	The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/>	Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/>	All free liquids and recoverable materials have been removed and managed appropriately.

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

2.0 SITE CHARACTERIZATION

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 SWD 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 nearby 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 2. A drilling log is provided in Appendix B.

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

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Lobo 285 SWD are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>105'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 SITE ASSESSMENT

On February 1, 2022, Etech conducted an initial site assessment. During the initial site assessment, three (3) hand-augered soil bores (V1, V2, and V3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, a series of hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine 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 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, a total of 14 delineation soil samples (NH B @ 0', NH B @ 1', EH C @ 0', EH C @ 1', SH D @ 0', SH D @ 1', WH E @ 0', WH E @ 1', V1 @ 0', V1 @ 4', V2 @ 0', V2 @ 4', V3 @ 0', and V3 @ 4') were submitted to a certified, commercial laboratory (henceforth, "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. BTEX concentrations were also below the laboratory method detection limit (MDL). TPH concentrations ranged from less than the laboratory MDL in soil samples NH B @ 0', NH B @ 1', EH C @ 0', EH C @ 1', SH D @ 0', SH D @ 1', WH E @ 1', V1 @ 0', V1 @ 4', V2 @ 0', V2 @ 4', and V3 @ 4' to 440 mg/kg in soil sample V3 @ 0'. Chloride concentrations ranged from 8.91 mg/kg in soil sample EH C @ 1' to 27,700 mg/kg in soil sample V3 @ 0', which exceeded the NMOCD Closure Criterion.

Based on laboratory analytical data, additional vertical delineation was required in the areas characterized by sample points V1, V2, and V3; and additional horizontal delineation was required in the area characterized by sample point WH E. The horizontal extent of impacted soil was adequately defined in the areas characterized by sample points NH B, EH C, and SH D.

On April 15, 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 and V3 to total depths of six (6) feet and 12 feet bgs, respectively. Hand-augered soil bore V2 was re-entered and advanced to a total depth of six (6) feet bgs. An additional hand-augered soil boring (WH F) was advanced to determine the horizontal extent of impacted soil in the area characterized by sample point WH E. During the advancement of the test trenches and 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, five (5) delineation soil samples (WH F @ 0', WH F @ 1', V1 @ 6', V2 @ 6', and V3 @ 12') were submitted to the laboratory for analysis of chloride. Soil samples WH F @ 0' and WH F @ 1' were also analyzed for TPH. Laboratory analytical results indicated that TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. The TPH concentrations in soil samples WH F @ 0' and WH F @ 1' were also below the laboratory MDL. Chloride concentrations ranged from 152 mg/kg in soil sample WH F @ 1' to 9,100 mg/kg in soil sample V3 @ 12'.

Based on laboratory analytical data, the horizontal extent of impacted soil was adequately defined in the area characterized by sample point WH F. The vertical extent of impacted soil was adequately defined in the areas characterized by sample points V1 and V2 and did not extend beyond five (5) to six (6) feet bgs. However, additional vertical delineation was required in the area characterized by sample point V3.

On July 19, 2023, Etech revisited the release site. An environmental drilling rig was utilized to advance a soil boring in the area characterized by sample point V3 to further investigate the vertical extent of impacted soil. The soil boring was advanced in increments of five (5) feet to a total depth of 35 feet bgs. During the advancement of the soil boring, 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, two (2) delineation soil samples (BH1 @ 30' and BH1 @ 35') were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that the chloride concentrations were 272 mg/kg in soil sample BH1 @ 30' and 128 mg/kg in soil sample BH1 @ 35', which were both below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

Based on laboratory analytical data, the vertical extent of impacted soil was adequately defined in the area characterized by sample points V3 and BH1.

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

5.0 REMEDIATION ACTIVITIES SUMMARY

On September 25, 2023, remediation activities commenced at the 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 sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On 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 excavated 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 and NMOCD Reclamation Standard in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL in a majority of the soil samples, with the exception of FL #2 @ 3", FL #11 @ 3", and FL #12 @ 3", which exhibited concentrations ranging from 0.305 mg/kg (FL #2 @ 3") to 0.789 mg/kg (FL #11 @ 3"). TPH concentrations ranged from less than the laboratory MDL in soil sample FL #4 @ 3" to 20,280 mg/kg in soil sample FL #12 @ 3". The 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 ranged from 160 mg/kg in soil sample FL #1 @ 3" to 20,000 mg/kg in soil sample FL #10 @ 3", which exceeded the NMOCD Closure Criterion.

On September 28, 2023, Etech collected 20 confirmation soil samples (FL #13 @ 3" through FL #32 @ 3 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 were below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL in each of the submitted soil samples, with the exception of soil sample FL #19 @ 3", which exhibited a concentration of 0.649 mg/kg. TPH concentrations ranged from 10.8 mg/kg in soil sample FL #23 @ 3" to 20,870 mg/kg in soil sample FL #19 @ 3". The TPH concentrations in soil samples FL #13 @ 3", FL #16 @ 3", FL #17 @ 3", FL #18 @ 3", FL #19 @ 3", FL #25 @ 3", FL #26 @ 3", and FL #27 @ 3" exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 2,320 mg/kg in soil sample FL #22 @ 3" to 21,600 mg/kg in soil sample FL #25 @ 3", which exceeded the NMOCD Closure Criterion.

On September 29, 2023, Etech collected 15 confirmation soil samples (FL #33 @ 3 in through FL #47 @ 3") from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples FL #45 @ 3", FL #46 @ 6", and FL #47 @ 3" to 852 mg/kg in soil sample FL #37 @ 3". Chloride concentrations ranged from 3,400 mg/kg in soil sample FL #42 @ 3" to 12,400 mg/kg in soil sample FL #45 @ 3".

On October 6, 2023, based on laboratory analytical results, the excavation was 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". Etech collected 13 confirmation soil samples (FL 2 @ 6 in, FL 8 @ 6 in, FL 10 @ 6 in, FL 11 @ 6 in, FL 12 @ 6 in, and FL 48 @ 6 in through FL 55 @ 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 and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples, with the exception of

soil sample FL 51 @ 6 in, which exhibited a TPH concentration of 11.1 mg/kg. Chloride concentrations ranged from 288 mg/kg in soil sample FL 2 @ 6 in to 18,400 mg/kg in soil sample FL 51 @ 6 in.

On October 9, 2023, based on laboratory analytical results, the excavation was 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". Etech collected 17 confirmation soil samples (NW1, EW1, EW2, SW1, WW1, WW2, 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, FL 26 @ 1 ft, and FL 27 @ 1 ft) 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 TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples FL 13 @ 6 in, FL 19 @ 6 in, FL 21 @ 6 in, FL 25 @ 1 ft, FL 26 @ 1 ft, and FL 27 @ 1 ft to 2,202 mg/kg in soil sample FL 18 @ 6 in. Chloride concentrations ranged from 144 mg/kg in soil sample FL 7 @ 3 in to 26,800 mg/kg in soil sample EW2. The chloride concentrations in soil samples NW1 and EW2 exceeded the NMOCD Closure Criterion.

On October 11, 2023, Etech collected 18 confirmation soil samples (NW2, EW3, and FL 56 @ 1 ft through FL 71 @ 1 ft) 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exception of soil sample EW3, which exhibited a TPH concentration of 29.8 mg/kg. Chloride concentrations ranged from 288 mg/kg in soil sample FL 70 @ 1 ft to 6,400 mg/kg in soil sample EW3.

On October 12, 2023, Etech collected 24 confirmation soil samples (FL 72 @ 3 in through FL 95 @ 3 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 and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples FL 72 @ 3 in through FL 79 @ 3 in, FL 82 @ 3 in, FL 83 @ 3 in, FL 84 @ 3 in, FL 86 @ 3 in, FL 87 @ 3 in, FL 88 @ 3 in, FL 90 @ 3 in, FL 92 @ 3 in, and FL 94 @ 3 in to 65.1 mg/kg in soil sample FL 93 @ 3 in. Chloride concentrations ranged from 160 mg/kg in soil sample FL 87 @ 3 in to 3,360 mg/kg in soil sample FL 93 @ 3 in.

On October 13, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NW1, EW2, FL 16 @ 6 in, and FL 18 @ 6 in. Etech collected 23 confirmation soil samples (NW1B, NW3, EW2B, SW2, SW3, WW4, WW5, FL 16 @ 1 ft, FL 18 @ 1 ft, and FL 96 @ 3 in through FL 109 @ 3 in) 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also less than the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples SW3, WW4, WW5, FL 96 @ 3 in through FL 100 @ 3 in, and FL 102 @ 3 in through FL 109 @ 3 in to 131 mg/kg in soil sample SW2. Chloride concentrations ranged from 240 mg/kg in soil samples WW5 and FL 108 @ 3 in to 2,920 mg/kg in soil sample NW3.

The final dimensions of the excavated area were approximately 128 to 398 feet in length, eight (8) to 84 feet in width, and three (3) inches to one (1) foot in depth. During the course of remediation activities, Etech transported approximately 220 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 220 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, "Site & 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 Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

6.0 RESTORATION, RECLAMATION & REVEGETATION PLAN

The release was limited to the production pad of an active SWD facility and did not affect the adjacent pasture. 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, and the affected area was compacted and contoured to fit the needs of the facility. Final reclamation and revegetation will be conducted upon decommissioning and abandonment of the SWD.

7.0 SOIL CLOSURE REQUEST

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 provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Lobo 285 SWD release 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

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

Topographic Map

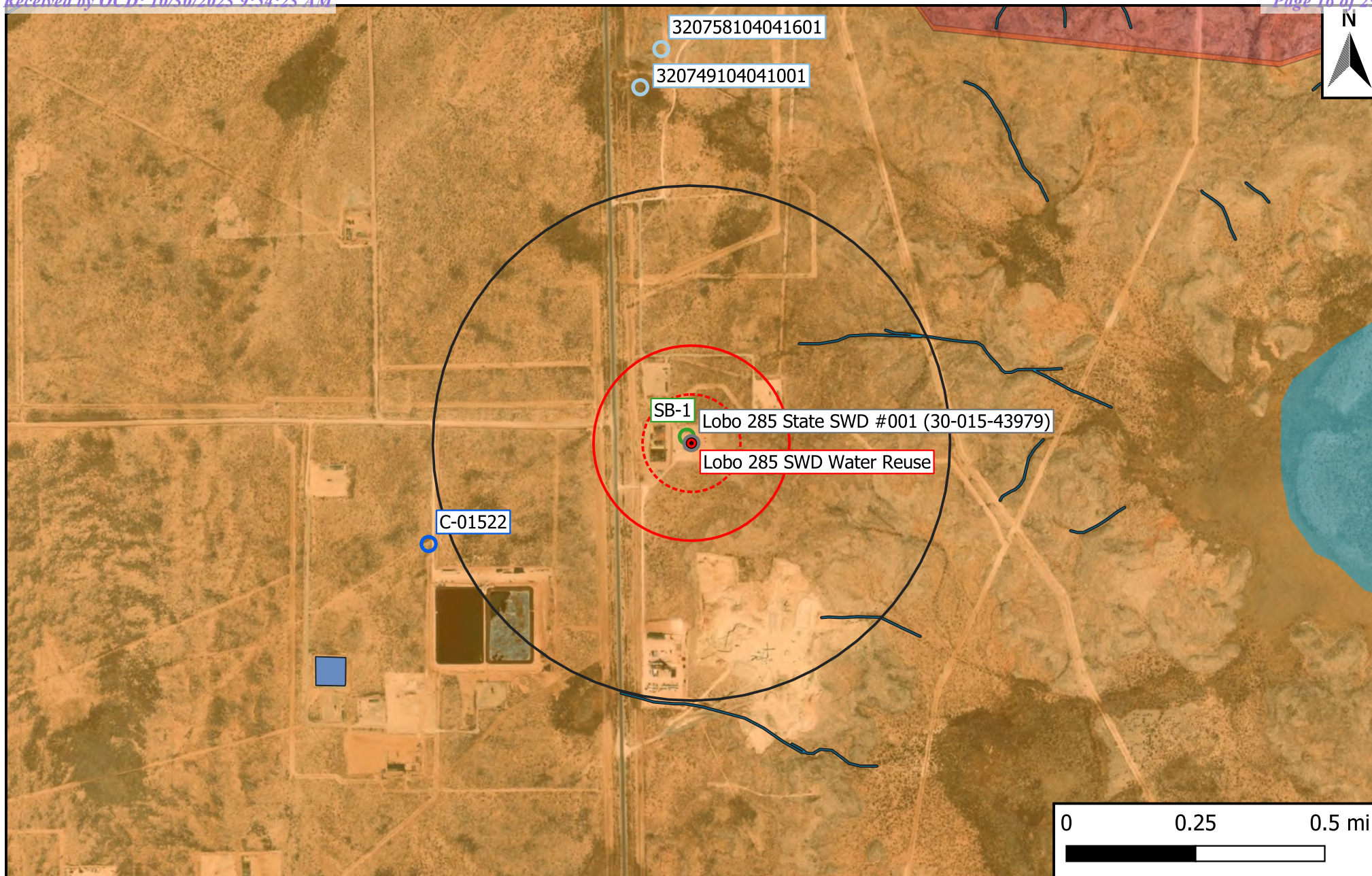


ETECH 
Environmental & Safety Solutions, Inc.

Date: 8/2/23

Figure 2

Site Characterization Map



Legend

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

Figure 2

Site Characterization Map
 Solaris Water Midstream, LLC
 Lobo 285 SWD Water Reuse
 GPS: 32.121830, -104.070718
 Eddy County



Drafted: bja

Checked: jwl

Date: 10/19/23

Figures 3A & 3B Site & Sample Location Maps



Legend

- Inferred Affected Area
- Test Trench
- Delineation Sample Location
- Exploratory Borehole
- Injection Well

Figure 3A

Site & Sample Location Map (Delineation)
 Solaris Water Midstream, LLC
 Lobo 285 SWD Water Reuse
 GPS: 32.121830, -104.070718
 Eddy County



Drafted: bja

Checked: jwl

Date: 10/23/23



Legend <div>Excavation Extent</div> <div>Composite Floor Sample</div> <div>Composite Wall Sample</div>	Figure 3B Site & Sample Location Map (Excavation) Solaris Water Midstream, LLC Lobo 285 SWD Water Reuse GPS: 32.121830, -104.070718 Eddy County		
		Drafted: bja	Checked: jwl Date: 10/23/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 SWD Water Reuse NMOCD Ref. #: nAPP2135135752											
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 CI
				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)
NH B @ 0'	2/1/2022	0	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	21.9
NH B @ 1'	2/1/2022	1	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	46.1
EH C @ 0'	2/1/2022	0	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	18.9
EH C @ 1'	2/1/2022	1	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.91
SH D @ 0'	2/1/2022	0	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	22.6
SH D @ 1'	2/1/2022	1	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	14.9
WH E @ 0'	2/1/2022	0	In-Situ	<0.00199	<0.00398	<49.9	107	107	<49.9	107	29.9
WH E @ 1'	2/1/2022	1	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	22.4
WHF @ 0'	4/25/2022	0	In-Situ	-	-	<50.0	<50.0	<50.0	<50.0	<50.0	261
WHF @ 1'	4/25/2022	1	In-Situ	-	-	<50.0	<50.0	<50.0	<50.0	<50.0	152
V1 @ 0'	2/1/2022	0	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,690
V1 @ 4'	2/1/2022	4	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	3,220
V1 @ 6'	4/25/2022	6	In-Situ	-	-	-	-	-	-	-	521
V2 @ 0'	2/1/2022	0	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,910
V2 @ 4'	2/1/2022	4	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	7,050
V2 @ 6'	4/25/2022	6	In-Situ	-	-	-	-	-	-	-	279
V3 @ 0'	2/1/2022	0	Excavated	<0.00200	<0.00400	<50.0	440	440	<50.0	440	27,700
V3 @ 4'	2/1/2022	4	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	10,800
V3 @ 12'	4/25/2022	12	In-Situ	-	-	-	-	-	-	-	9,100
BH1 @ 30'	7/19/2023	30	In-Situ	-	-	-	-	-	-	-	272
BH1 @ 35'	7/19/2023	35	In-Situ	-	-	-	-	-	-	-	128
NW1	10/9/2023	0-1	Excavated	<0.050	<0.300	<10.0	33.8	33.8	15.4	49.2	22,800
NW1B	10/13/2023	0-1	In-Situ	<0.050	<0.300	<10.0	15.7	15.7	<10.0	15.7	992
NW2	10/11/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,040
NW3	10/13/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	71.6	71.6	<10.0	71.6	2,920
EW1	10/9/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	286	286	117	403	2,000
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
EW3	10/11/2023	0-1	In-Situ	<0.050	<0.300	<10.0	29.8	29.8	<10.0	29.8	6,400
SW1	10/9/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	519	519	327	846	8,000
SW2	10/13/2023	0-1	In-Situ	<0.050	<0.300	<10.0	83.1	83.1	47.6	131	256
SW3	10/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW1	10/9/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	26.7	26.7	14.6	41.3	7,730
WW2	10/9/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	276	276	151	427	5,680
WW4	10/13/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
WW5	10/13/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
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

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 SWD Water Reuse NMOCD Ref. #: nAPP2135135752											
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 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
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 #23 @ 3"	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	10.8	10.8	<10.0	10.8	7,200
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
FL #28 @ 6"	9/28/2023	0.5	In-Situ	<0.050	<0.300	<10.0	42.6	42.6	26.4	69.0	5,600
FL #29 @ 3 in	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	215	215	119	334	4,640
FL #30 @ 3 in	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	276	276	153	429	5,360
FL #31 @ 3 in	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	69.4	69.4	46.9	116	8,800
FL #32 @ 3 in	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	614	614	337	951	13,800
FL #33 @ 3 in	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	115	115	31.9	147	8,260
FL #34 @ 3 in	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	234	234	88.7	323	6,400
FL #35 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	193	193	80.4	273	11,600
FL #36 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	102	102	40.8	143	7,730
FL #37 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	581	581	271	852	9,730
FL #38 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	236	236	73.8	310	8,660

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

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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 #39 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	228	228	86.9	315	10,100
FL #40 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	287	287	143	430	7,860
FL #41 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	291	291	109	400	7,330
FL #42 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	31.4	31.4	12.7	44.1	3,400
FL #43 @ 6"	9/29/2023	0.5	In-Situ	<0.050	<0.300	<10.0	62.4	62.4	<10.0	62.4	10,000
FL #44 @ 6"	9/29/2023	0.5	In-Situ	<0.050	<0.300	<10.0	111	111	17.4	128	11,600
FL #45 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
FL #46 @ 6"	9/29/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,720
FL #47 @ 3"	9/29/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,520
FL 48 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
FL 49 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,460
FL 50 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,600
FL 51 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	11.1	11.1	<10.0	11.1	18,400
FL 52 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,300
FL 53 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,330
FL 54 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
FL 55 @ 6 in	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,200
FL 56 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FL 57 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
FL 58 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,720
FL 59 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 60 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
FL 61 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 62 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
FL 63 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 64 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
FL 65 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
FL 66 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 67 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,010
FL 68 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,880
FL 69 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 70 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 71 @ 1 ft	10/11/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 72 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
FL 73 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,410
FL 74 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 75 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 76 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
FL 77 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 78 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,170
FL 79 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 80 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	31.3	31.3	<10.0	31.3	2,800
FL 81 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	34.4	34.4	<10.0	34.4	2,680
FL 82 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 83 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 SWD Water Reuse NMOCD Ref. #: nAPP2135135752											
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 84 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 85 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	51.6	51.6	<10.0	51.6	2,920
FL 86 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 87 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 88 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 89 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	61.1	61.1	<10.0	61.1	3,320
FL 90 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 91 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	42.3	42.3	<10.0	42.3	3,200
FL 92 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 93 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	65.1	65.1	<10.0	65.1	3,360
FL 94 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 95 @ 3 in	10/12/2023	0.25	In-Situ	<0.050	<0.300	<10.0	30.3	30.3	<10.0	30.3	1,100
FL 96 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 97 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 98 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 99 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 100 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 101 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	56.6	56.6	<10.0	56.6	2,760
FL 102 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 103 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 104 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 105 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 106 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 107 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 108 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 109 @ 3 in	10/13/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272

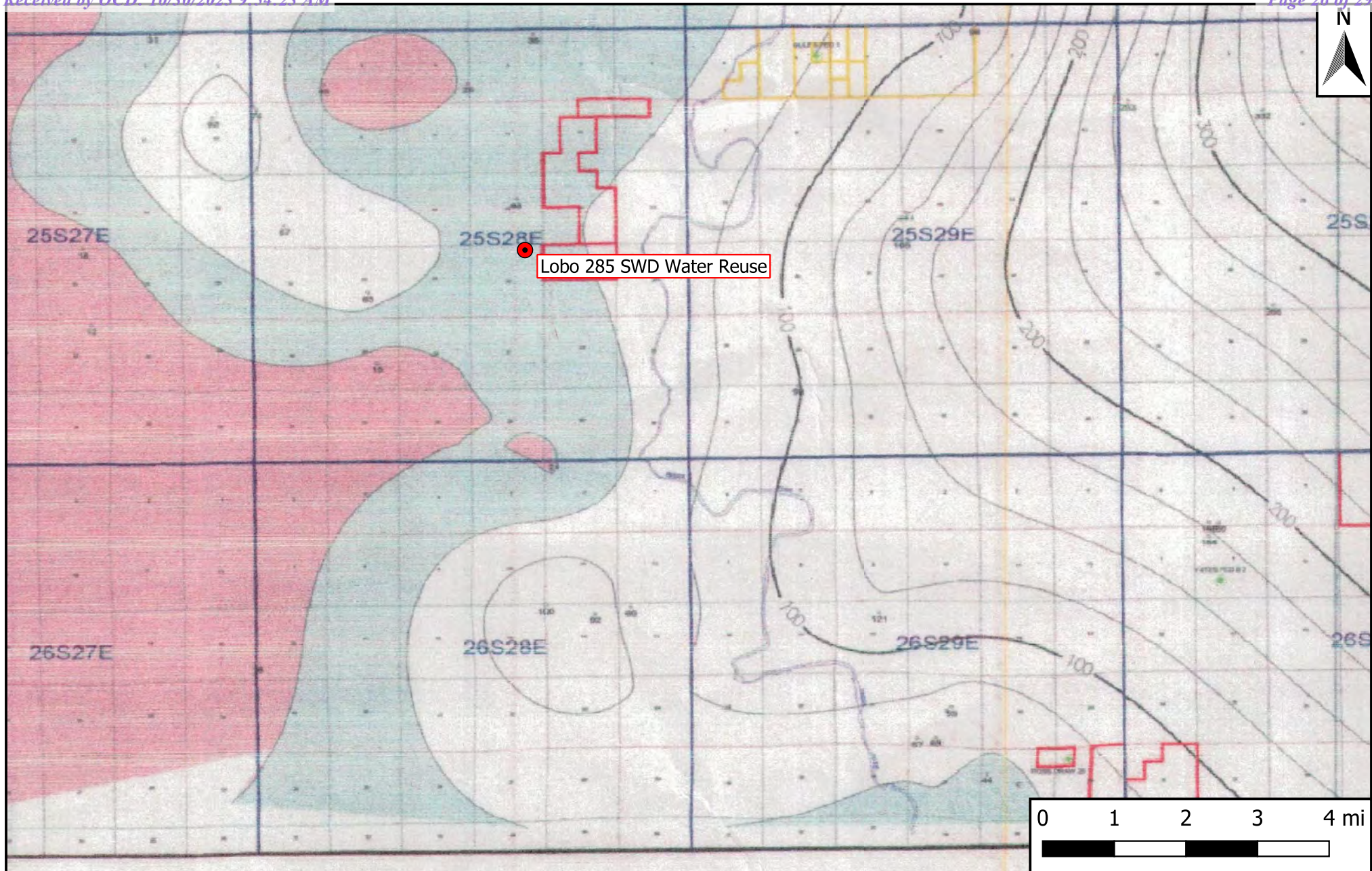
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Solaris Water Midstream, LLC
 Lobo 285 SWD Water Reuse
 GPS: 32.121830, -104.070718
 Eddy County



Drafted: bja

Checked: jwl

Date: 8/2/23



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 1	Q 2	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water 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)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)				X	Y		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng		
	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	Tw	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 Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.00

Depth Well: 70 feet

Depth Water: 40 feet

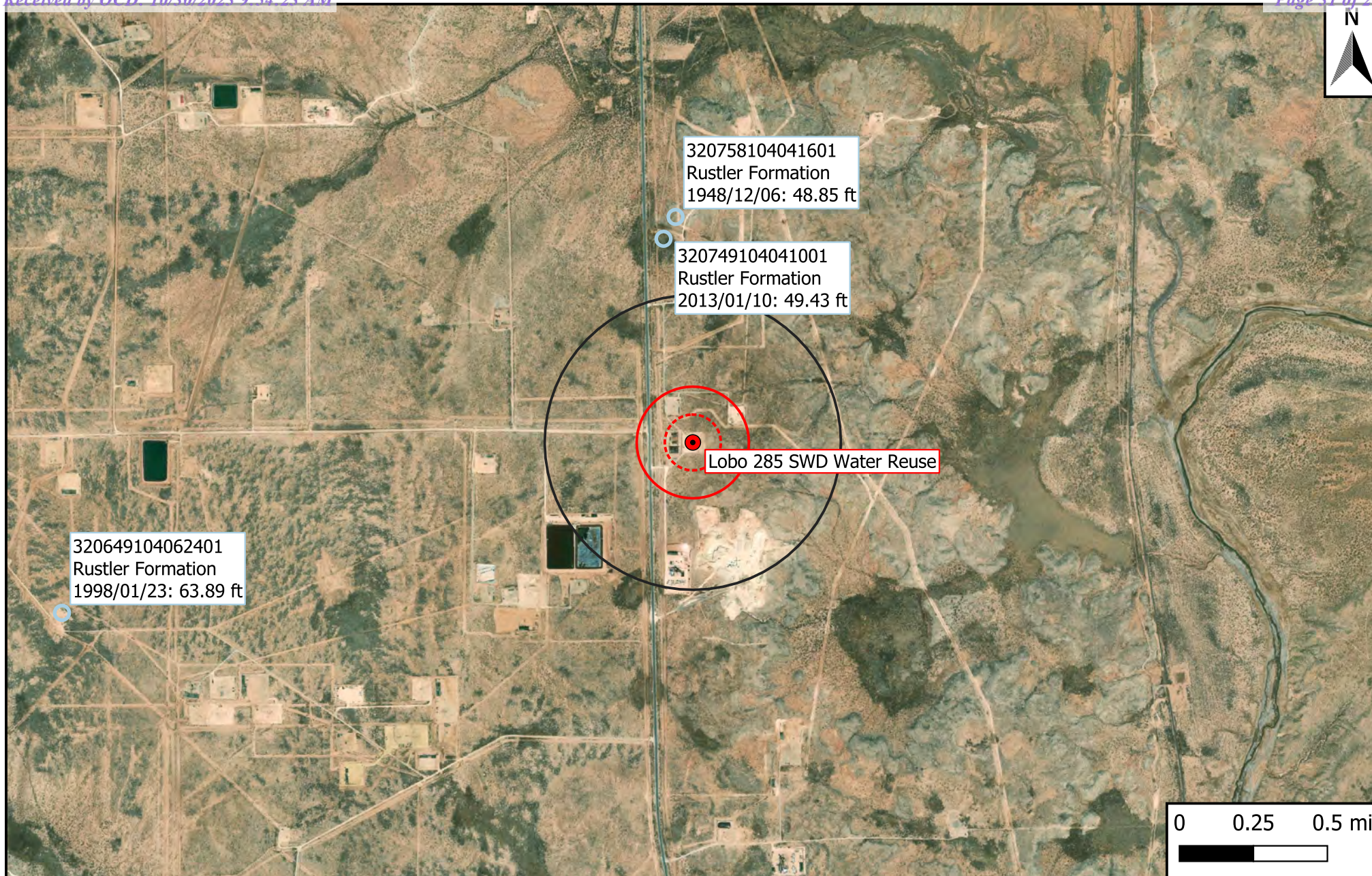
Water Bearing Stratifications:	Top	Bottom	Description
	50	70	Shale/Mudstone/Siltstone

*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



Legend

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

Figure 5

USGS Well Proximity Map
Solaris Water Midstream, LLC
Lobo 285 SWD Water Reuse
GPS: 32.121830, -104.070718
Eddy County



Drafted: bja

Checked: jwl

Date: 9/8/23



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Data Category:

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Geographic Area:

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Agency code = usgs

site_no list =
• 320749104041001

Minimum number of levels = 1

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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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0.35 0.25 nadww01



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site_no list =

- 320758104041601

Minimum number of levels = 1
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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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0.3 0.26 nadww01



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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 & Soil Profile Logs



Sample Log

Date:

2/1/22

Project: Lobo 285 SWD Water Reuse

Project Number:

15510

Latitude:

32.12183

Longitude:

-104.070718

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Lobo 285 SWD Water Reuse

Project Number: 15510 Latitude: 32.12183 Longitude: -104.070718

Sample ID	PID/Odor	Chloride Conc.	GPS
FL # 1 @ 3'	-	356	
FL # 2 @ 3'	-	1572	
FL # 3 @ 3'	-	1972	
FL # 4 @ 3'	-	356	
FL # 5 @ 3'	-	3164	
FL # 6 @ 3'	-		
FL # 7 @ 3'	-	5192	
FL # 8 @ 3'	-		
FL # 9 @ 3'	-	9676	
FL # 10 @ 3'	-	16,236	
FL # 11 @ 3'	-	7084	
FL # 12 @ 3'	-	4796	
FL # 13 @ 3'	-	12,372	
FL # 14 @ 3'	-	16,236	
FL # 15 @ 3'	-	6556	
FL # 16 @ 3'	-	12,372	
FL # 17 @ 3'	-	12,372	
FL # 18 @ 3'	-	4080	
FL # 19 @ 3'	-	5616	
FL # 20 @ 3'	-	6556	
FL # 21 @ 3'	-	11,376	
FL # 22 @ 3'	-	3164	
FL # 23 @ 3'	-	8268	
FL # 24 @ 3'	-	10,484	
FL # 25 @ 3'	-	12,372	
FL # 26 @ 3'	-	16,236	
FL # 27 @ 3'	-	7084	
FL # 28 @ 3'	-	29004	
FL # 29 @ 3'	-	7084	
FL # 30 @ 3'	-	17,952	
FL # 28 @ 6'	-	6,556	
FL # 31 @	-	11,376	
FL # 32 @	-	11,376	
FL # 33 @	-	8,268	
FL # 34 @	-	8,268	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

 Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL # 35 @ 3'	-	12,372	
FL # 36 @ 3'	-	11,376	
FL # 37 @ 3'	-	11,376	
FL # 38 @ 3'	-	6,556	
FL # 39 @ 3'	-	10,984	
FL # 40 @ 3'	-	5,904	
FL # 41 @ 3'	-	6,556	
FL # 42 @ 3'	-	4,428	
FL # 43 @ 3'	-	27,436	
FL # 44 @ 3'	-	27,436	
FL # 45 @ 3'	-	14,112	
FL # 46 @ 3'	-	20,864	
FL # 43 @ 6'	-	15,428	
FL # 44 @ 6'	-	14,112	
FL # 46 @ 6'	-	4,784	
FL # 47 @ 03'	-	4,324	
FL 48 @ 6	-	18,624	
FL 49 @ 6	-	6,624	
FL 50 @ 6	-	18,624	
FL 51 @ 6	-	12,680	
FL 52 @ 6	-	9,084	
FL 53 @ 6	-	6,174	
FL 54 @ 6	-	9,852	
FL 55 @ 6	-	16,780	
FL 2 @ 6	-	444	
FL 8 @ 6	-	6,624	
FL 10 @ 6	-	9,084	
FL 11 @ 6	-	16,780	
FL 12 @ 6	-	9,084	
FL 13 @ 6 in	-	3,456	
FL 16 @ 6 in	-	2,896	
FL 17 @ 6 in	-	4,448	
FL 18 @ 6 in	-	4,096	
NW1	-	17,952	
NW1	-	8,268	
NW2	-	8,268	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
EW1	-	3164	
EW2	-	16,236	
SW1	-	10,484	
FL 6 @ 3 in	-	356	
FL 7 @ 3 in	-	9676	
FL 21 @ 6 in	-	5,224	
FL 19 @ 6 in	-	2896	
FL 25 @ 1 ft	-	2,896	
FL 26 @ 1 ft	-	1,764	
FL 27 @ 1 ft	-	3,768	
FL 56 @ 1 ft	-	972	
FL 57 @ 1 ft	-	1,944	
FL 58 @ 1 ft	-	2588	
FL 59 @ 1 ft	-	592	
FL 60 @ 1 ft	-	2,080	
FL 61 @ 1 ft	-	900	
FL 62 @ 1 ft	-	1384	
FL 63 @ 1 ft	-	708	
EW1	-	4448	
NW2	-	2,232	
FL 64 @ 1 ft	-	1,584	
FL 65 @ 1 ft	-	1,816	
FL 66 @ 1 ft	-	832	
FL 67 @ 1 ft	-	972	
FL 68 @ 1 ft	-	1,816	
FL 69 @ 1 ft	-	592	
FL 70 @ 1 ft	-	900	
FL 71 @ 1 ft	-	1,384	
FL 72 @ 3 in	-	3164	
FL 73 @ 3 in	-	1944	
FL 74 @ 3 in	-	900	
FL 75 @ 3 in	-	16,236	
FL 76 @ 3 in	-	972	
FL 77 @ 3 in	-	1584	
FL 78 @ 3 in	-	3,768	
FL 79 @ 3 in	-	1,764	

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



in out
11 111

Sample Log

Date: _____

Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 80 @ 3 in	- None	3,164	
FL 81 @ 3 in	-	592	
FL 82 @ 3 in	-	3,768	
FL 83 @ 3 in	-	9,678	
FL 84 @ 3 in	-	356	
FL 85 @ 3 in	-	972	
FL 86 @ 3 in	-	1,816	
FL 87 @ 3 in	-	546	
FL 88 @ 3 in	-	900	
FL 89 @ 3 in	-	1384	
FL 90 @ 3 in	-	1,944	
FL 91 @ 3 in	-	1,764	
FL 92 @ 3 in	-	2,896	
FL 93 @ 3 in	-	6,624	
FL 94 @ 3 in	-	9,084	
FL 95 @ 3 in	-	16,704	
FL 96 @ 3 in	-	8,268	
FL 97 @ 3 in	-	9,852	
FL 98 @ 3 in	-	12,680	
FL 99 @ 3 in	-	4,784	
FL 100 @ 3 in	-	2,080	
FL 101 @ 3 in	-	1,764	
FL 102 @ 3 in	-	3,768	
FL 103 @ 3 in	-	3,164	
FL 104 @ 3 in	-	1,384	
FL 105 @ 3 in	-	1,764	
FL 106 @ 3 in	-	16,704	
FL 107 @ 3 in	-	2,896	
FL 108 @ 3 in	-	592	
FL 109 @ 3 in	-	900	
NW3	-	1,764	
SW2	-	2,896	
WW4	-	8,268	
WW5	-	3,768	
SW3	-		

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

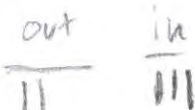
Refusal = SP #1 @ 4'-R

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: _____ Latitude: _____ Longitude: _____

GPS Sample Points, Center of Comp Areas



Soil Boring/Temporary Monitor Well SB-1

Company: Solaris Water Midstream, LLC			Well/Borehole ID: SB-1			Drilling Company: Vision Resources		
Site: Lobo 285 SWD Water Reuse			Coordinates (NAD 83): 32.121596,-104.072229			Driller: Jason Maley (NM License #1833)		
NMOCD Reference #: nAPP2135135752			Drilling Date: 6/15/2022			Drilling Method: Air Rotary		
Location: Eddy Co., NM			Depth of Boring (ft): 105			Logged By: Jason Maley		
PLSS: U/L "A", Sec. 22, T25S, R28E			Depth to Groundwater (ft): >105			Drafted By: B.J. Arguijo		
			Plugging Date: 6/20/2022			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	-	-	-	Open Hole	
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			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.					
115								

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

Appendix C

Photographic Log


Photographic Log

Photo Number: 1	 <p>Jan 14, 2022 at 12:06:26 PM +32.121684,-104.072141 ±5.00m 136° SE</p>
Photo Direction: Southeast	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>Jan 14, 2022 at 1:03:30 PM +32.121941,-104.071572 ±35.00m 200° S</p>
Photo Direction: South-Southwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: North-Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	<div>Jan 14, 2022 at 1:22:46 PM +32.121958,-104.071532 ±5.00m 302° NW</div> 
Photo Direction: West-Northwest	
Photo Description: View of the affected area.	

Photo Number: 6	<div>Jan 14, 2022 at 1:23:01 PM +32.122185,-104.071546 ±5.00m 323° NW</div> 
Photo Direction: Northwest	
Photo Description: View of the affected area.	


Photographic Log

Photo Number: 7	 <p>2023/10/13 10:28 +32.121755,-104.072356</p>
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>2023/10/12 13:37 +32.122303,-104.071547</p>
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 10	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>2023/10/12 13:41 +32.121704, -104.072206</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>2023/10/12 13:41 +32.121592, -104.072224</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 13	
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	
Photo Direction: North-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log


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

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

Appendix D

Laboratory Analytical Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10920-1

Laboratory Sample Delivery Group: Rural Eddy Co, NM
Client Project/Site: Lobo 285 SWD Water Reuse
Revision: 2

For:

Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: PM List

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
2/17/2022 12:48:20 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Laboratory Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Job ID: 880-10920-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-10920-1

REVISION

The report being provided is a revision of the original report sent on 2/14/2022. The report (revision 2) is being revised due to Correcting sample IDs 02/17/2021.

Report revision history

The report being provided is a revision of the original report sent on 2/14/2022. The report (revision 2) is being revised due to Correcting sample IDs 02/17/2021.

Revision 1 - 2/17/2022 - Reason - Per client email, corrected sample ID and depths..

Receipt

The samples were received on 2/4/2022 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18627 and analytical batch 880-18625 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: V2 @ 0' (880-10920-3). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: V1 @ 0' (880-10920-1), V1 @ 4' (880-10920-2), V2 @ 0' (880-10920-3), V2 @ 4' (880-10920-4), V3 @ 4' (880-10920-6), NH B @ 0' (880-10920-7), NH B @ 1' (880-10920-8), EH C @ 0' (880-10920-9) and EH C @ 1' (880-10920-10). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-18664/2-A) and (LCSD 880-18664/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18571 and analytical batch 880-18734 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: V1 @ 0'

Lab Sample ID: 880-10920-1

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/05/22 12:11	02/05/22 17:16	1
1,4-Difluorobenzene (Surr)	70		70 - 130	02/05/22 12:11	02/05/22 17:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130	02/04/22 16:00	02/07/22 02:17	1
o-Terphenyl	0	S1-	70 - 130	02/04/22 16:00	02/07/22 02:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4690		99.4		mg/Kg			02/11/22 20:34	20

Client Sample ID: V1 @ 4'

Lab Sample ID: 880-10920-2

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/05/22 12:11	02/05/22 17:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/05/22 12:11	02/05/22 17:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/05/22 12:11	02/05/22 17:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/05/22 12:11	02/05/22 17:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/05/22 12:11	02/05/22 17:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/05/22 12:11	02/05/22 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/05/22 12:11	02/05/22 17:37	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: V1 @ 4'

Lab Sample ID: 880-10920-2

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	71		70 - 130	02/05/22 12:11	02/05/22 17:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 02:37	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 02:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220		25.3		mg/Kg			02/11/22 20:44	5

Client Sample ID: V2 @ 0'

Lab Sample ID: 880-10920-3

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 17:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 17:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	02/05/22 12:11	02/05/22 17:57	1
1,4-Difluorobenzene (Surr)	120		70 - 130	02/05/22 12:11	02/05/22 17:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/22 09:32	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: V2 @ 0'

Lab Sample ID: 880-10920-3

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 02:58	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 02:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910		25.2		mg/Kg			02/14/22 09:08	5

Client Sample ID: V2 @ 4'

Lab Sample ID: 880-10920-4

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/05/22 12:11	02/05/22 18:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130				02/05/22 12:11	02/05/22 18:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 03:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 03:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 03:18	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 03:18	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: V2 @ 4'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Sample Depth: 4

Lab Sample ID: 880-10920-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7050		49.8		mg/Kg			02/11/22 21:22	10

Client Sample ID: V3 @ 0'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Sample Depth: 0

Lab Sample ID: 880-10920-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/05/22 12:11	02/05/22 18:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 18:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/05/22 12:11	02/05/22 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				02/05/22 12:11	02/05/22 18:42	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/05/22 12:11	02/05/22 18:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	440		50.0		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 03:39	1
Diesel Range Organics (Over C10-C28)	440		50.0		mg/Kg		02/04/22 16:00	02/07/22 03:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				02/04/22 16:00	02/07/22 03:39	1
o-Terphenyl	87		70 - 130				02/04/22 16:00	02/07/22 03:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27700		99.0		mg/Kg			02/14/22 09:18	20

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: V3 @ 4'

Lab Sample ID: 880-10920-6

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/05/22 12:11	02/05/22 19:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 19:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/05/22 12:11	02/05/22 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/05/22 12:11	02/05/22 19:03	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/05/22 12:11	02/05/22 19:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 03:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 03:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130	02/04/22 16:00	02/07/22 03:59	1
o-Terphenyl	0	S1-	70 - 130	02/04/22 16:00	02/07/22 03:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10800		49.5		mg/Kg			02/11/22 21:41	10

Client Sample ID: NH B @ 0'

Lab Sample ID: 880-10920-7

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/05/22 12:11	02/05/22 19:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/05/22 12:11	02/05/22 19:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/05/22 12:11	02/05/22 19:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/05/22 12:11	02/05/22 19:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/05/22 12:11	02/05/22 19:23	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/05/22 12:11	02/05/22 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	02/05/22 12:11	02/05/22 19:23	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: NH B @ 0'

Lab Sample ID: 880-10920-7

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130	02/05/22 12:11	02/05/22 19:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 04:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 04:40	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 04:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.9		4.99		mg/Kg			02/11/22 21:51	1

Client Sample ID: NH B @ 1'

Lab Sample ID: 880-10920-8

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 20:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/05/22 12:11	02/05/22 20:46	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/05/22 12:11	02/05/22 20:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: NH B @ 1'

Lab Sample ID: 880-10920-8

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:00	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.1	F1	5.00		mg/Kg			02/11/22 22:00	1

Client Sample ID: EH C @ 0'

Lab Sample ID: 880-10920-9

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/05/22 12:11	02/05/22 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				02/05/22 12:11	02/05/22 21:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/05/22 12:11	02/05/22 21:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:20	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:20	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: EH C @ 0'

Lab Sample ID: 880-10920-9

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		4.99		mg/Kg			02/11/22 22:29	1

Client Sample ID: EH C @ 1'

Lab Sample ID: 880-10920-10

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/05/22 12:11	02/05/22 21:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130				02/05/22 12:11	02/05/22 21:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 05:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 05:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/22 16:00	02/07/22 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:40	1
o-Terphenyl	0	S1-	70 - 130				02/04/22 16:00	02/07/22 05:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.91		4.95		mg/Kg			02/11/22 22:39	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: SH D @ 0'

Lab Sample ID: 880-10920-11

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 21:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 21:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/05/22 12:11	02/05/22 21:48	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/05/22 12:11	02/05/22 21:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 06:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 06:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/22 16:00	02/07/22 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/04/22 16:00	02/07/22 06:01	1
o-Terphenyl	75		70 - 130	02/04/22 16:00	02/07/22 06:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.6		5.05		mg/Kg			02/14/22 09:28	1

Client Sample ID: SH D @ 1'

Lab Sample ID: 880-10920-12

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 22:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 22:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/05/22 12:11	02/05/22 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/05/22 12:11	02/05/22 22:08	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: SH D @ 1'

Lab Sample ID: 880-10920-12

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78		70 - 130	02/05/22 12:11	02/05/22 22:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 22:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 22:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				02/07/22 09:32	02/07/22 22:33	1
o-Terphenyl	81		70 - 130				02/07/22 09:32	02/07/22 22:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		5.01		mg/Kg			02/11/22 23:17	1

Client Sample ID: WH E @ 0'

Lab Sample ID: 880-10920-13

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	02/05/22 12:11	02/05/22 22:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/05/22 12:11	02/05/22 22:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	107		49.9		mg/Kg			02/10/22 09:32	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: WH E @ 0'

Lab Sample ID: 880-10920-13

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 0

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/07/22 09:32	02/07/22 23:40	1
Diesel Range Organics (Over C10-C28)	107		49.9		mg/Kg		02/07/22 09:32	02/07/22 23:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/07/22 09:32	02/07/22 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/07/22 09:32	02/07/22 23:40	1
o-Terphenyl	86		70 - 130				02/07/22 09:32	02/07/22 23:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.9		4.95		mg/Kg			02/11/22 23:27	1

Client Sample ID: WH E @ 1'

Lab Sample ID: 880-10920-14

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/05/22 12:11	02/05/22 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				02/05/22 12:11	02/05/22 22:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130				02/05/22 12:11	02/05/22 22:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/10/22 10:09	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/10/22 09:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/08/22 00:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/08/22 00:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/08/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/07/22 09:32	02/08/22 00:00	1
o-Terphenyl	91		70 - 130				02/07/22 09:32	02/08/22 00:00	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: WH E @ 1'
Date Collected: 02/01/22 00:00
Date Received: 02/04/22 15:40
Sample Depth: 1

Lab Sample ID: 880-10920-14
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4		4.97		mg/Kg			02/11/22 23:36	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-10920-1	V1 @ 0'	113	70
880-10920-2	V1 @ 4'	116	71
880-10920-3	V2 @ 0'	139 S1+	120
880-10920-4	V2 @ 4'	99	93
880-10920-5	V3 @ 0'	117	81
880-10920-6	V3 @ 4'	99	91
880-10920-7	NH B @ 0'	130	80
880-10920-8	NH B @ 1'	95	92
880-10920-9	EH C @ 0'	115	110
880-10920-10	EH C @ 1'	110	91
880-10920-11	SH D @ 0'	97	81
880-10920-12	SH D @ 1'	90	78
880-10920-13	WH E @ 0'	103	88
880-10920-14	WH E @ 1'	108	98
890-1903-A-1-C MS	Matrix Spike	108	103
890-1903-A-1-D MSD	Matrix Spike Duplicate	105	103
LCS 880-18627/1-A	Lab Control Sample	106	96
LCSD 880-18627/2-A	Lab Control Sample Dup	127	110
MB 880-18627/5-A	Method Blank	124	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-10920-1	V1 @ 0'	0 S1-	0 S1-
880-10920-2	V1 @ 4'	0 S1-	0 S1-
880-10920-3	V2 @ 0'	0 S1-	0 S1-
880-10920-4	V2 @ 4'	0 S1-	0 S1-
880-10920-5	V3 @ 0'	73	87
880-10920-6	V3 @ 4'	0 S1-	0 S1-
880-10920-7	NH B @ 0'	0 S1-	0 S1-
880-10920-8	NH B @ 1'	0 S1-	0 S1-
880-10920-9	EH C @ 0'	0 S1-	0 S1-
880-10920-10	EH C @ 1'	0 S1-	0 S1-
880-10920-11	SH D @ 0'	70	75
880-10920-12	SH D @ 1'	79	81
880-10920-12 MS	SH D @ 1'	19 S1-	65 S1-
880-10920-12 MSD	SH D @ 1'	20 S1-	69 S1-
880-10920-13	WH E @ 0'	83	86
880-10920-14	WH E @ 1'	87	91
880-10926-A-7-D MS	Matrix Spike	76	78
880-10926-A-7-E MSD	Matrix Spike Duplicate	78	81
LCS 880-18603/2-A	Lab Control Sample	95	103
LCS 880-18664/2-A	Lab Control Sample	18 S1-	70

Eurofins Midland

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
LCSD 880-18603/3-A	Lab Control Sample Dup	92	99
LCSD 880-18664/3-A	Lab Control Sample Dup	17 S1-	70
MB 880-18603/1-A	Method Blank	84	98
MB 880-18664/1-A	Method Blank	77	83
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18627/5-A

Matrix: Solid

Analysis Batch: 18625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 15:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 15:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 15:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/05/22 12:11	02/05/22 15:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/05/22 12:11	02/05/22 15:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/05/22 12:11	02/05/22 15:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	02/05/22 12:11	02/05/22 15:53	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/05/22 12:11	02/05/22 15:53	1

Lab Sample ID: LCS 880-18627/1-A

Matrix: Solid

Analysis Batch: 18625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07478		mg/Kg		75	70 - 130
Toluene	0.100	0.07455		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07781		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1596		mg/Kg		80	70 - 130
o-Xylene	0.100	0.07931		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-18627/2-A

Matrix: Solid

Analysis Batch: 18625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18627

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07497		mg/Kg		75	70 - 130	0	35
Toluene	0.100	0.08063		mg/Kg		81	70 - 130	8	35
Ethylbenzene	0.100	0.08674		mg/Kg		87	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1773		mg/Kg		89	70 - 130	10	35
o-Xylene	0.100	0.08920		mg/Kg		89	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-1903-A-1-C MS

Matrix: Solid

Analysis Batch: 18625

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0998	0.06369	F1	mg/Kg		63	70 - 130
Toluene	<0.00200	U F1	0.0998	0.06529	F1	mg/Kg		65	70 - 130

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1903-A-1-C MS

Matrix: Solid

Analysis Batch: 18625

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U F1	0.0998	0.06927	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1319	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U	0.0998	0.07255		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1903-A-1-D MSD

Matrix: Solid

Analysis Batch: 18625

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.06662	F1	mg/Kg		66	70 - 130	4	35
Toluene	<0.00200	U F1	0.100	0.06699	F1	mg/Kg		66	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.100	0.06954	F1	mg/Kg		69	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1429		mg/Kg		71	70 - 130	8	35
o-Xylene	<0.00200	U	0.100	0.07154		mg/Kg		70	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-18603/1-A

Matrix: Solid

Analysis Batch: 18649

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/04/22 14:40	02/06/22 23:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/22 14:40	02/06/22 23:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/22 14:40	02/06/22 23:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	02/04/22 14:40	02/06/22 23:15	1
o-Terphenyl	98		70 - 130	02/04/22 14:40	02/06/22 23:15	1

Lab Sample ID: LCS 880-18603/2-A

Matrix: Solid

Analysis Batch: 18649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	827.6		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1127		mg/Kg		113	70 - 130

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-18603/2-A

Matrix: Solid

Analysis Batch: 18649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18603

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-18603/3-A

Matrix: Solid

Analysis Batch: 18649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18603

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	834.3		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1160		mg/Kg		116	70 - 130	3	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-10926-A-7-D MS

Matrix: Solid

Analysis Batch: 18649

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	788.1		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	882.1		mg/Kg		86	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-10926-A-7-E MSD

Matrix: Solid

Analysis Batch: 18649

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18603

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	813.1		mg/Kg		79	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	921.8		mg/Kg		90	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	81		70 - 130

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-18664/1-A

Matrix: Solid

Analysis Batch: 18758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 21:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 21:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/07/22 09:32	02/07/22 21:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				02/07/22 09:32	02/07/22 21:28	1
o-Terphenyl	83		70 - 130				02/07/22 09:32	02/07/22 21:28	1

Lab Sample ID: LCS 880-18664/2-A

Matrix: Solid

Analysis Batch: 18758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	750.9		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1000	940.8		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	18	S1-	70 - 130				
o-Terphenyl	70		70 - 130				

Lab Sample ID: LCSD 880-18664/3-A

Matrix: Solid

Analysis Batch: 18758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18664

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	766.9		mg/Kg		77	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	924.5		mg/Kg		92	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	17	S1-	70 - 130						
o-Terphenyl	70		70 - 130						

Lab Sample ID: 880-10920-12 MS

Matrix: Solid

Analysis Batch: 18758

Client Sample ID: SH D @ 1'

Prep Type: Total/NA

Prep Batch: 18664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1002		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	984.4		mg/Kg		95	70 - 130

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-10920-12 MS

Matrix: Solid

Analysis Batch: 18758

Client Sample ID: SH D @ 1'

Prep Type: Total/NA

Prep Batch: 18664

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	19	S1-	70 - 130
o-Terphenyl	65	S1-	70 - 130

Lab Sample ID: 880-10920-12 MSD

Matrix: Solid

Analysis Batch: 18758

Client Sample ID: SH D @ 1'

Prep Type: Total/NA

Prep Batch: 18664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	926.0		mg/Kg		88	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1065		mg/Kg		104	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	20	S1-	70 - 130
o-Terphenyl	69	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18571/1-A

Matrix: Solid

Analysis Batch: 18734

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/11/22 19:24	1

Lab Sample ID: LCS 880-18571/2-A

Matrix: Solid

Analysis Batch: 18734

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	272.5		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-18571/3-A

Matrix: Solid

Analysis Batch: 18734

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	270.5		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-10920-8 MS

Matrix: Solid

Analysis Batch: 18734

Client Sample ID: NH B @ 1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	46.1	F1	250	326.8	F1	mg/Kg		112	90 - 110

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-10920-8 MSD

Client Sample ID: NH B @ 1'

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 18734

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	46.1	F1	250	327.4	F1	mg/Kg	-	113	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

GC VOA

Analysis Batch: 18625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	8021B	18627
880-10920-2	V1 @ 4'	Total/NA	Solid	8021B	18627
880-10920-3	V2 @ 0'	Total/NA	Solid	8021B	18627
880-10920-4	V2 @ 4'	Total/NA	Solid	8021B	18627
880-10920-5	V3 @ 0'	Total/NA	Solid	8021B	18627
880-10920-6	V3 @ 4'	Total/NA	Solid	8021B	18627
880-10920-7	NH B @ 0'	Total/NA	Solid	8021B	18627
880-10920-8	NH B @ 1'	Total/NA	Solid	8021B	18627
880-10920-9	EH C @ 0'	Total/NA	Solid	8021B	18627
880-10920-10	EH C @ 1'	Total/NA	Solid	8021B	18627
880-10920-11	SH D @ 0'	Total/NA	Solid	8021B	18627
880-10920-12	SH D @ 1'	Total/NA	Solid	8021B	18627
880-10920-13	WH E @ 0'	Total/NA	Solid	8021B	18627
880-10920-14	WH E @ 1'	Total/NA	Solid	8021B	18627
MB 880-18627/5-A	Method Blank	Total/NA	Solid	8021B	18627
LCS 880-18627/1-A	Lab Control Sample	Total/NA	Solid	8021B	18627
LCSD 880-18627/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18627
890-1903-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	18627
890-1903-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18627

Prep Batch: 18627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	5035	
880-10920-2	V1 @ 4'	Total/NA	Solid	5035	
880-10920-3	V2 @ 0'	Total/NA	Solid	5035	
880-10920-4	V2 @ 4'	Total/NA	Solid	5035	
880-10920-5	V3 @ 0'	Total/NA	Solid	5035	
880-10920-6	V3 @ 4'	Total/NA	Solid	5035	
880-10920-7	NH B @ 0'	Total/NA	Solid	5035	
880-10920-8	NH B @ 1'	Total/NA	Solid	5035	
880-10920-9	EH C @ 0'	Total/NA	Solid	5035	
880-10920-10	EH C @ 1'	Total/NA	Solid	5035	
880-10920-11	SH D @ 0'	Total/NA	Solid	5035	
880-10920-12	SH D @ 1'	Total/NA	Solid	5035	
880-10920-13	WH E @ 0'	Total/NA	Solid	5035	
880-10920-14	WH E @ 1'	Total/NA	Solid	5035	
MB 880-18627/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18627/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18627/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1903-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1903-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 19024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	Total BTEX	
880-10920-2	V1 @ 4'	Total/NA	Solid	Total BTEX	
880-10920-3	V2 @ 0'	Total/NA	Solid	Total BTEX	
880-10920-4	V2 @ 4'	Total/NA	Solid	Total BTEX	
880-10920-5	V3 @ 0'	Total/NA	Solid	Total BTEX	
880-10920-6	V3 @ 4'	Total/NA	Solid	Total BTEX	
880-10920-7	NH B @ 0'	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 19024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-8	NH B @ 1'	Total/NA	Solid	Total BTEX	
880-10920-9	EH C @ 0'	Total/NA	Solid	Total BTEX	
880-10920-10	EH C @ 1'	Total/NA	Solid	Total BTEX	
880-10920-11	SH D @ 0'	Total/NA	Solid	Total BTEX	
880-10920-12	SH D @ 1'	Total/NA	Solid	Total BTEX	
880-10920-13	WH E @ 0'	Total/NA	Solid	Total BTEX	
880-10920-14	WH E @ 1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	8015NM Prep	
880-10920-2	V1 @ 4'	Total/NA	Solid	8015NM Prep	
880-10920-3	V2 @ 0'	Total/NA	Solid	8015NM Prep	
880-10920-4	V2 @ 4'	Total/NA	Solid	8015NM Prep	
880-10920-5	V3 @ 0'	Total/NA	Solid	8015NM Prep	
880-10920-6	V3 @ 4'	Total/NA	Solid	8015NM Prep	
880-10920-7	NH B @ 0'	Total/NA	Solid	8015NM Prep	
880-10920-8	NH B @ 1'	Total/NA	Solid	8015NM Prep	
880-10920-9	EH C @ 0'	Total/NA	Solid	8015NM Prep	
880-10920-10	EH C @ 1'	Total/NA	Solid	8015NM Prep	
880-10920-11	SH D @ 0'	Total/NA	Solid	8015NM Prep	
MB 880-18603/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18603/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10926-A-7-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10926-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-2	V1 @ 4'	Total/NA	Solid	8015B NM	18603
880-10920-3	V2 @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-4	V2 @ 4'	Total/NA	Solid	8015B NM	18603
880-10920-5	V3 @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-6	V3 @ 4'	Total/NA	Solid	8015B NM	18603
880-10920-7	NH B @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-8	NH B @ 1'	Total/NA	Solid	8015B NM	18603
880-10920-9	EH C @ 0'	Total/NA	Solid	8015B NM	18603
880-10920-10	EH C @ 1'	Total/NA	Solid	8015B NM	18603
880-10920-11	SH D @ 0'	Total/NA	Solid	8015B NM	18603
MB 880-18603/1-A	Method Blank	Total/NA	Solid	8015B NM	18603
LCS 880-18603/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18603
LCSD 880-18603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18603
880-10926-A-7-D MS	Matrix Spike	Total/NA	Solid	8015B NM	18603
880-10926-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18603

Prep Batch: 18664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-12	SH D @ 1'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 18664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-13	WH E @ 0'	Total/NA	Solid	8015NM Prep	
880-10920-14	WH E @ 1'	Total/NA	Solid	8015NM Prep	
MB 880-18664/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18664/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18664/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10920-12 MS	SH D @ 1'	Total/NA	Solid	8015NM Prep	
880-10920-12 MSD	SH D @ 1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-12	SH D @ 1'	Total/NA	Solid	8015B NM	18664
880-10920-13	WH E @ 0'	Total/NA	Solid	8015B NM	18664
880-10920-14	WH E @ 1'	Total/NA	Solid	8015B NM	18664
MB 880-18664/1-A	Method Blank	Total/NA	Solid	8015B NM	18664
LCS 880-18664/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18664
LCSD 880-18664/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18664
880-10920-12 MS	SH D @ 1'	Total/NA	Solid	8015B NM	18664
880-10920-12 MSD	SH D @ 1'	Total/NA	Solid	8015B NM	18664

Analysis Batch: 19008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Total/NA	Solid	8015 NM	
880-10920-2	V1 @ 4'	Total/NA	Solid	8015 NM	
880-10920-3	V2 @ 0'	Total/NA	Solid	8015 NM	
880-10920-4	V2 @ 4'	Total/NA	Solid	8015 NM	
880-10920-5	V3 @ 0'	Total/NA	Solid	8015 NM	
880-10920-6	V3 @ 4'	Total/NA	Solid	8015 NM	
880-10920-7	NH B @ 0'	Total/NA	Solid	8015 NM	
880-10920-8	NH B @ 1'	Total/NA	Solid	8015 NM	
880-10920-9	EH C @ 0'	Total/NA	Solid	8015 NM	
880-10920-10	EH C @ 1'	Total/NA	Solid	8015 NM	
880-10920-11	SH D @ 0'	Total/NA	Solid	8015 NM	
880-10920-12	SH D @ 1'	Total/NA	Solid	8015 NM	
880-10920-13	WH E @ 0'	Total/NA	Solid	8015 NM	
880-10920-14	WH E @ 1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 18571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Soluble	Solid	DI Leach	
880-10920-2	V1 @ 4'	Soluble	Solid	DI Leach	
880-10920-3	V2 @ 0'	Soluble	Solid	DI Leach	
880-10920-4	V2 @ 4'	Soluble	Solid	DI Leach	
880-10920-5	V3 @ 0'	Soluble	Solid	DI Leach	
880-10920-6	V3 @ 4'	Soluble	Solid	DI Leach	
880-10920-7	NH B @ 0'	Soluble	Solid	DI Leach	
880-10920-8	NH B @ 1'	Soluble	Solid	DI Leach	
880-10920-9	EH C @ 0'	Soluble	Solid	DI Leach	
880-10920-10	EH C @ 1'	Soluble	Solid	DI Leach	
880-10920-11	SH D @ 0'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 18571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-12	SH D @ 1'	Soluble	Solid	DI Leach	
880-10920-13	WH E @ 0'	Soluble	Solid	DI Leach	
880-10920-14	WH E @ 1'	Soluble	Solid	DI Leach	
MB 880-18571/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18571/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18571/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10920-8 MS	NH B @ 1'	Soluble	Solid	DI Leach	
880-10920-8 MSD	NH B @ 1'	Soluble	Solid	DI Leach	

Analysis Batch: 18734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10920-1	V1 @ 0'	Soluble	Solid	300.0	18571
880-10920-2	V1 @ 4'	Soluble	Solid	300.0	18571
880-10920-3	V2 @ 0'	Soluble	Solid	300.0	18571
880-10920-4	V2 @ 4'	Soluble	Solid	300.0	18571
880-10920-5	V3 @ 0'	Soluble	Solid	300.0	18571
880-10920-6	V3 @ 4'	Soluble	Solid	300.0	18571
880-10920-7	NH B @ 0'	Soluble	Solid	300.0	18571
880-10920-8	NH B @ 1'	Soluble	Solid	300.0	18571
880-10920-9	EH C @ 0'	Soluble	Solid	300.0	18571
880-10920-10	EH C @ 1'	Soluble	Solid	300.0	18571
880-10920-11	SH D @ 0'	Soluble	Solid	300.0	18571
880-10920-12	SH D @ 1'	Soluble	Solid	300.0	18571
880-10920-13	WH E @ 0'	Soluble	Solid	300.0	18571
880-10920-14	WH E @ 1'	Soluble	Solid	300.0	18571
MB 880-18571/1-A	Method Blank	Soluble	Solid	300.0	18571
LCS 880-18571/2-A	Lab Control Sample	Soluble	Solid	300.0	18571
LCSD 880-18571/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18571
880-10920-8 MS	NH B @ 1'	Soluble	Solid	300.0	18571
880-10920-8 MSD	NH B @ 1'	Soluble	Solid	300.0	18571

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: V1 @ 0'

Lab Sample ID: 880-10920-1

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 17:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 02:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		20			18734	02/11/22 20:34	CH	XEN MID

Client Sample ID: V1 @ 4'

Lab Sample ID: 880-10920-2

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 17:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 02:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		5			18734	02/11/22 20:44	CH	XEN MID

Client Sample ID: V2 @ 0'

Lab Sample ID: 880-10920-3

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 17:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 02:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		5			18734	02/14/22 09:08	CH	XEN MID

Client Sample ID: V2 @ 4'

Lab Sample ID: 880-10920-4

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 18:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: V2 @ 4'**Date Collected: 02/01/22 00:00****Date Received: 02/04/22 15:40****Lab Sample ID: 880-10920-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 03:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		10			18734	02/11/22 21:22	CH	XEN MID

Client Sample ID: V3 @ 0'**Date Collected: 02/01/22 00:00****Date Received: 02/04/22 15:40****Lab Sample ID: 880-10920-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 18:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 03:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		20			18734	02/14/22 09:18	CH	XEN MID

Client Sample ID: V3 @ 4'**Date Collected: 02/01/22 00:00****Date Received: 02/04/22 15:40****Lab Sample ID: 880-10920-6****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 19:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 03:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		10			18734	02/11/22 21:41	CH	XEN MID

Client Sample ID: NH B @ 0'**Date Collected: 02/01/22 00:00****Date Received: 02/04/22 15:40****Lab Sample ID: 880-10920-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 19:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 04:40	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: NH B @ 0'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Lab Sample ID: 880-10920-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 21:51	CH	XEN MID

Client Sample ID: NH B @ 1'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Lab Sample ID: 880-10920-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 20:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 05:00	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 22:00	CH	XEN MID

Client Sample ID: EH C @ 0'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Lab Sample ID: 880-10920-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 21:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 05:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 22:29	CH	XEN MID

Client Sample ID: EH C @ 1'

Date Collected: 02/01/22 00:00

Date Received: 02/04/22 15:40

Lab Sample ID: 880-10920-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 21:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 05:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 22:39	CH	XEN MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: SH D @ 0'

Lab Sample ID: 880-10920-11

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 21:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18603	02/04/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18649	02/07/22 06:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/14/22 09:28	CH	XEN MID

Client Sample ID: SH D @ 1'

Lab Sample ID: 880-10920-12

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 22:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18664	02/07/22 09:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18758	02/07/22 22:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 23:17	CH	XEN MID

Client Sample ID: WH E @ 0'

Lab Sample ID: 880-10920-13

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 22:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18664	02/07/22 09:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18758	02/07/22 23:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 23:27	CH	XEN MID

Client Sample ID: WH E @ 1'

Lab Sample ID: 880-10920-14

Date Collected: 02/01/22 00:00

Matrix: Solid

Date Received: 02/04/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	18627	02/05/22 12:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18625	02/05/22 22:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19024	02/10/22 10:09	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Client Sample ID: WH E @ 1'
Date Collected: 02/01/22 00:00
Date Received: 02/04/22 15:40

Lab Sample ID: 880-10920-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19008	02/10/22 09:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18664	02/07/22 09:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18758	02/08/22 00:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18571	02/04/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			18734	02/11/22 23:36	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-10920-1
SDG: Rural Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-10920-1	V1 @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
880-10920-2	V1 @ 4'	Solid	02/01/22 00:00	02/04/22 15:40	4
880-10920-3	V2 @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
880-10920-4	V2 @ 4'	Solid	02/01/22 00:00	02/04/22 15:40	4
880-10920-5	V3 @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
880-10920-6	V3 @ 4'	Solid	02/01/22 00:00	02/04/22 15:40	4
880-10920-7	NH B @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
880-10920-8	NH B @ 1'	Solid	02/01/22 00:00	02/04/22 15:40	1
880-10920-9	EH C @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
880-10920-10	EH C @ 1'	Solid	02/01/22 00:00	02/04/22 15:40	1
880-10920-11	SH D @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
880-10920-12	SH D @ 1'	Solid	02/01/22 00:00	02/04/22 15:40	1
880-10920-13	WH E @ 0'	Solid	02/01/22 00:00	02/04/22 15:40	0
880-10920-14	WH E @ 1'	Solid	02/01/22 00:00	02/04/22 15:40	1



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
 Atlanta, GA (770) 449-8800

Work Or



880-10920 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	2617 West Marland	Address:	
City, State ZIP:	Hobbs, NM 88240	City, State ZIP:	
Phone:	(575) 264-9884	Email:	Email Results to: PM@etechenv.com + Client

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level I <input type="checkbox"/> Level II <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Lobo 285 SWD Water Reuse		Turn Around		ANALYSIS REQUEST												Preservative Codes			
Project Number:		15510		Routine: <input checked="" type="checkbox"/>														HNO3: HN			
Project Location		Rural Eddy Co., NM		Rush: <input type="checkbox"/>														H2S04: H2			
Sampler's Name:		Matthew Grieco		Due Date:														HCL: HL			
PO #:																		None: NO			
SAMPLE RECEIPT		Temp Blank: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														NaOH: Na			
Temperature (°C):		43/44		Thermometer ID														MeOH: Me			
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor:														Zn Acetate+ NaOH: Zn			
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Total Containers:														TAT starts the day received by the lab, if received by 4:30pm			
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A																			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (8021)	TPH (Modified Ext.)	CI- (E300)											Sample Comments	
V1 @ 0'		Soil	2/1/2022		0	1/NO	X	X	X												
V1 @ 4'		Soil	2/1/2022		4	1/NO	X	X	X												
V2 @ 0'		Soil	2/1/2022		0	1/NO	X	X	X												
V2 @ 4'		Soil	2/1/2022		4	1/NO	X	X	X												
V3 @ 0'		Soil	2/1/2022		0	1/NO	X	X	X												
V3 @ 1'		Soil	2/1/2022		1	1/NO	X	X	X												
NH B @ 0'		Soil	2/1/2022		0	1/NO	X	X	X												
NH B @ 1'		Soil	2/1/2022		1	1/NO	X	X	X												
EH C @ 0'		Soil	2/1/2022		0	1/NO	X	X	X												
EH C @ 1'		Soil	2/1/2022		1	1/NO	X	X	X												

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	2/4/2022	<i>[Signature]</i>	<i>[Signature]</i>	2/4/22
3					1540
5					

Revised Date 101419 Rev. 2019.1



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: _____

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Project Manager:	Joel Lowry	Bill to: (if different)	Solaris Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	2617 West Marland	Address:	
City, State ZIP:	Hobbs, NM 88240	City, State ZIP:	
Phone:	(575) 264-9884	Email:	Email Results to: PM@etechenv.com + Client

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level I <input type="checkbox"/> Level II <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="text"/>

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>			TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg																														

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1						2					
3						4					
5						6					

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-10920-1
SDG Number: Rural Eddy Co, NM

Login Number: 10920

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14085-1

Laboratory Sample Delivery Group: Rural Eddy Co., NM
Client Project/Site: Lobo 285 SWD Water Reuse

For:

Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Joel Lowry

Authorized for release by:

5/2/2022 1:32:55 PM

Brianna Teel, Project Manager
(432)704-5440

Brianna.Teel@et.eurofinsus.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Laboratory Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Job ID: 880-14085-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-14085-1
-----------	------------------------------

Receipt

The samples were received on 4/26/2022 9:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-24262/3-A) and (MB 880-24262/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24336 and 880-24336 and analytical batch 880-24547 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Client Sample ID: V1 @ 6'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Sample Depth: 6'

Lab Sample ID: 880-14085-1

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	521		49.9		mg/Kg			05/01/22 15:09	10

Client Sample ID: V2 @ 6'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Sample Depth: 6'

Lab Sample ID: 880-14085-2

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		4.98		mg/Kg			05/01/22 15:28	1

Client Sample ID: V3 @ 12'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Sample Depth: 12'

Lab Sample ID: 880-14085-3

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9100		99.0		mg/Kg			05/01/22 15:34	20

Client Sample ID: WHF @ 0'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Sample Depth: 0'

Lab Sample ID: 880-14085-4

Matrix: Solid

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/28/22 09:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	04/26/22 14:42	04/27/22 19:09	1
o-Terphenyl	94		70 - 130	04/26/22 14:42	04/27/22 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		25.0		mg/Kg			05/01/22 15:41	5

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Client Sample ID: WHF @ 1'
Date Collected: 04/25/22 00:00
Date Received: 04/26/22 09:08
Sample Depth: 1'

Lab Sample ID: 880-14085-5
Matrix: Solid

Method: 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			04/28/22 09:20	1	
Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:30	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:30	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 19:30	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130				04/26/22 14:42	04/27/22 19:30	1	
o-Terphenyl	101		70 - 130				04/26/22 14:42	04/27/22 19:30	1	
Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	152		25.3		mg/Kg			05/01/22 15:47	5	

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14003-A-21-B MS	Matrix Spike	78	82
880-14003-A-21-C MSD	Matrix Spike Duplicate	78	81
880-14085-4	WHF @ 0'	84	94
880-14085-5	WHF @ 1'	88	101
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-24262/2-A	Lab Control Sample	105	126
LCSD 880-24262/3-A	Lab Control Sample Dup	125	153 S1+
MB 880-24262/1-A	Method Blank	116	145 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-24262/1-A

Matrix: Solid

Analysis Batch: 24278

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 11:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 11:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/22 14:42	04/27/22 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/26/22 14:42	04/27/22 11:32	1
o-Terphenyl	145	S1+	70 - 130				04/26/22 14:42	04/27/22 11:32	1

Lab Sample ID: LCS 880-24262/2-A

Matrix: Solid

Analysis Batch: 24278

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1162		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.8		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 130				
o-Terphenyl	126		70 - 130				

Lab Sample ID: LCSD 880-24262/3-A

Matrix: Solid

Analysis Batch: 24278

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1044		mg/Kg		104	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	153	S1+	70 - 130						

Lab Sample ID: 880-14003-A-21-B MS

Matrix: Solid

Analysis Batch: 24278

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	915.7		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	792.4		mg/Kg		77	70 - 130

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-14003-A-21-B MS

Matrix: Solid

Analysis Batch: 24278

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24262

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-14003-A-21-C MSD

Matrix: Solid

Analysis Batch: 24278

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24262

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	876.0		mg/Kg		86	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	748.8		mg/Kg		72	70 - 130	6	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	78		70 - 130									
o-Terphenyl	81		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24336/1-A

Matrix: Solid

Analysis Batch: 24547

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			05/01/22 12:56	1		

Lab Sample ID: LCS 880-24336/2-A

Matrix: Solid

Analysis Batch: 24547

Client Sample ID: Lab Control Sample

Prep Type: Soluble

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	246.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-24336/3-A

Matrix: Solid

Analysis Batch: 24547

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride		250	233.0		mg/Kg		93	90 - 110	6	20	

Lab Sample ID: 880-14074-A-19-C MS

Matrix: Solid

Analysis Batch: 24547

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	5100	F1	2480	8032	F1	mg/Kg		118	90 - 110		

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-14074-A-19-D MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 24547												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	5100	F1	2480	7739		mg/Kg		107	90 - 110	4	20	

Lab Sample ID: 880-14083-A-1-C MS					Client Sample ID: Matrix Spike							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 24547												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	2160	F1	1250	3793	F1	mg/Kg		131	90 - 110			

Lab Sample ID: 880-14083-A-1-D MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 24547												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	2160	F1	1250	3687	F1	mg/Kg		123	90 - 110	3	20	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

GC Semi VOA

Prep Batch: 24262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14085-4	WHF @ 0'	Total/NA	Solid	8015NM Prep	
880-14085-5	WHF @ 1'	Total/NA	Solid	8015NM Prep	
MB 880-24262/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24262/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14003-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14003-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14085-4	WHF @ 0'	Total/NA	Solid	8015B NM	24262
880-14085-5	WHF @ 1'	Total/NA	Solid	8015B NM	24262
MB 880-24262/1-A	Method Blank	Total/NA	Solid	8015B NM	24262
LCS 880-24262/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24262
LCSD 880-24262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24262
880-14003-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	24262
880-14003-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24262

Analysis Batch: 24378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14085-4	WHF @ 0'	Total/NA	Solid	8015 NM	
880-14085-5	WHF @ 1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14085-1	V1 @ 6'	Soluble	Solid	DI Leach	
880-14085-2	V2 @ 6'	Soluble	Solid	DI Leach	
880-14085-3	V3 @ 12'	Soluble	Solid	DI Leach	
880-14085-4	WHF @ 0'	Soluble	Solid	DI Leach	
880-14085-5	WHF @ 1'	Soluble	Solid	DI Leach	
MB 880-24336/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24336/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24336/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14074-A-19-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14074-A-19-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-14083-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14083-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 24547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14085-1	V1 @ 6'	Soluble	Solid	300.0	24336
880-14085-2	V2 @ 6'	Soluble	Solid	300.0	24336
880-14085-3	V3 @ 12'	Soluble	Solid	300.0	24336
880-14085-4	WHF @ 0'	Soluble	Solid	300.0	24336
880-14085-5	WHF @ 1'	Soluble	Solid	300.0	24336
MB 880-24336/1-A	Method Blank	Soluble	Solid	300.0	24336
LCS 880-24336/2-A	Lab Control Sample	Soluble	Solid	300.0	24336
LCSD 880-24336/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24336
880-14074-A-19-C MS	Matrix Spike	Soluble	Solid	300.0	24336

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

HPLC/IC (Continued)

Analysis Batch: 24547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14074-A-19-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24336
880-14083-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	24336
880-14083-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	24336

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Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Client Sample ID: V1 @ 6'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Lab Sample ID: 880-14085-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		10			24547	05/01/22 15:09	CH	XEN MID

Client Sample ID: V2 @ 6'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Lab Sample ID: 880-14085-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		1			24547	05/01/22 15:28	CH	XEN MID

Client Sample ID: V3 @ 12'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Lab Sample ID: 880-14085-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		20			24547	05/01/22 15:34	CH	XEN MID

Client Sample ID: WHF @ 0'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Lab Sample ID: 880-14085-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24378	04/28/22 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24262	04/26/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24278	04/27/22 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		5			24547	05/01/22 15:41	CH	XEN MID

Client Sample ID: WHF @ 1'

Date Collected: 04/25/22 00:00

Date Received: 04/26/22 09:08

Lab Sample ID: 880-14085-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			24378	04/28/22 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24262	04/26/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24278	04/27/22 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24336	04/27/22 13:05	SC	XEN MID
Soluble	Analysis	300.0		5			24547	05/01/22 15:47	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

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Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Lobo 285 SWD Water Reuse

Job ID: 880-14085-1
SDG: Rural Eddy Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14085-1	V1 @ 6'	Solid	04/25/22 00:00	04/26/22 09:08	6'
880-14085-2	V2 @ 6'	Solid	04/25/22 00:00	04/26/22 09:08	6'
880-14085-3	V3 @ 12'	Solid	04/25/22 00:00	04/26/22 09:08	12'
880-14085-4	WHF @ 0'	Solid	04/25/22 00:00	04/26/22 09:08	0'
880-14085-5	WHF @ 1'	Solid	04/25/22 00:00	04/26/22 09:08	1'

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (904) 756-0747 Delray Beach FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: _____

www.xenco.com Page 1 of 1


Project Manager:	Joel Lowry	Bill to. (if different)	Solans Water Midstream C/O Rob Kirk
Company Name:	Etech Environmental and Safety	Company Name:	
Address:	2617 West Marland	Address:	
City, State ZIP	Hobbs, NM 88240	City, State ZIP	
Phone:	(575) 264-9884	Email	Email Results to PM@etechenv.com + Client

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRF <input type="checkbox"/>	Brownfield <input type="checkbox"/>	RR <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:				
Reporting Level <input type="checkbox"/>	Level <input type="checkbox"/>	PST/US <input type="checkbox"/>	TRF <input type="checkbox"/>	Level <input type="checkbox"/>
Deliverables	EDD <input type="checkbox"/>	ADaPT <input type="checkbox"/>	Other:	

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO2	Na	Sr	Ti	Sn	U	V	Zn
<i>Circle Method(s) and Metal(s) to be analyzed</i>			TCLP / SPLP 6010		8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U											1631 / 245.1 / 7470 / 7471	Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1		Buttany Cap	4/25/22	2	Buttany Cap
3				4	Letreier
5				6	4/26/22 10.52

Revised Date 10/4/19 Rev. 2019.1

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-14085-1
SDG Number: Rural Eddy Co., NM

Login Number: 14085

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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 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: 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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/27/2023
 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)

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	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 BTX	0.305	0.300	10/01/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	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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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)

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) 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



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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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)

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) 112 % 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	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



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Analytical Results For:

Etech Environmental & Safety Solutions
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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, 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	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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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 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)

BTEx 8021B		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 BTEX	<0.300	0.300	09/29/2023	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	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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12200	16.0	09/29/2023	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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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 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)

BTEx 8021B		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 BTEx	<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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Analytical Results For:

Etech Environmental & Safety Solutions
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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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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 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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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etch 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: 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.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																											
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME															
H235284				X				X								X		9/27/23				Chloride		TPH		BTEX 8021													
1 FL #1 @ 3'				X				X								X		9/27/23				X		X		X													
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: Aaron Rios				Date: 9/27/23		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
Relinquished By:				Time: 16:28						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
				Date:		Received By:				REMARKS: Email results to pm@etechenv.com																													
				Time:																																			
Delivered By: (Circle One)				4.00c		Sample Condition				CHECKED BY: (Initials)																													
Sampler - UPS - Bus - Other:				#140		Cool Intact				[Signature]																													
						Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																	
						Intact <input type="checkbox"/> Yes <input checked="" 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 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2023
 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)

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) 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

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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)

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) 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	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



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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 # 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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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 # 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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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 # 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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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 # 18 @ 3' (H235330-06)

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*	0.253	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) 112 % 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	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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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 # 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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 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 # 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
 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 # 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	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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Celey D. Keene, Lab Director/Quality Manager



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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 # 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
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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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	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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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
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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 # 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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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
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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 # 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, SM4500CI-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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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 # 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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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 # 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, 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				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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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 # 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, 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	10/02/2023	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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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 # 30 @ 3' (H235330-18)

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	10/02/2023	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, SM4500CI-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



PHONE (575) 393-2326 ° 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 # 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



PHONE (575) 393-2326 ° 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 # 32 @ 3' (H235330-20)

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) 105 % 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	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



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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: 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: Aaron Rios		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 :										
H235320																			
1	FL # 13 @ 3'	X				X					X		7/28/23		X	X	X		
2	FL # 14 @ 3'																		
3	FL # 15 @ 3'																		
4	FL # 16 @ 3'																		
5	FL # 17 @ 3'																		
6	FL # 18 @ 3'																		
7	FL # 19 @ 3'																		
8	FL # 20 @ 3'																		
9	FL # 21 @ 3'																		
10	FL # 22 @ 3'																		
<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: Aaron Rios		Date: 7/29/23		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: Email results to pm@etechenv.com									
Relinquished By:		Time: 14:35		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:											
Delivered By: (Circle One)		-9.3"		Sample Condition		CHECKED BY: (Initials)													
Sampler - UPS - Bus - Other:		#140		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		[Signature]													

† 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 #:																															
Project Location: UL/ A Sec 22 T2S - R28E				Fax #:																															
Sampler Name: Aaron Rios																																			
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		Chloride		TPH		BTEX 8021	
H2355330				X								X								X						9/28/13				X		X		X	
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 #:	
Time: 14:35				Time: 14:35		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: Aaron Rios				Received By: [Signature]		REMARKS: Email results to pm@etechenv.com			
Delivered By: (Circle One)		Time: 9:30		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:		#140		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		[Signature]			
				Yes <input type="checkbox"/> No <input type="checkbox"/>					

† 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 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 33 @ 3' (H235333-01)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	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	8260	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	180	90.0	200	1.86	
DRO >C10-C28*	115	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	31.9	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 34 @ 3' (H235333-02)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	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	6400	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	180	90.0	200	1.86	
DRO >C10-C28*	234	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	88.7	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 35 @ 3' (H235333-03)

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	10/03/2023	ND	2.14	107	2.00	4.20		
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80		
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92		
Total BTEX	<0.300	0.300	10/03/2023	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	11600	16.0	10/02/2023	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	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	193	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	80.4	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 36 @ 3' (H235333-04)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTEX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	10/02/2023	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	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	102	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	40.8	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 37 @ 3' (H235333-05)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	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	9730	16.0	10/02/2023	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	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	581	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	271	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 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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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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 38 @ 3' (H235333-06)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	8660	16.0	10/02/2023	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	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	236	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	73.8	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 39 @ 3' (H235333-07)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	10/02/2023	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	10/02/2023	ND	180	90.0	200	1.86	
DRO >C10-C28*	228	10.0	10/02/2023	ND	213	107	200	0.789	
EXT DRO >C28-C36	86.9	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 40 @ 3' (H235333-08)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	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	7860	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	287	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	143	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 41 @ 3' (H235333-09)

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	10/03/2023	ND	2.14	107	2.00	4.20		
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80		
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98		
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92		
Total BTEx	<0.300	0.300	10/03/2023	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	7330	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	291	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	109	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 42 @ 3' (H235333-10)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	3400	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	31.4	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	12.7	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 43 @ 6' (H235333-11)

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	10/03/2023	ND	2.14	107	2.00	4.20	
Toluene*	<0.050	0.050	10/03/2023	ND	2.21	110	2.00	1.80	
Ethylbenzene*	<0.050	0.050	10/03/2023	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/03/2023	ND	6.32	105	6.00	3.92	
Total BTX	<0.300	0.300	10/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	10000	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	62.4	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 44 @ 6' (H235333-12)

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	10/04/2023	ND	1.95	97.6	2.00	0.709		
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634		
Total BTEx	<0.300	0.300	10/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	11600	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	111	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	17.4	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 102 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 45 @ 3' (H235333-13)

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	10/04/2023	ND	1.95	97.6	2.00	0.709		
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634		
Total BTEx	<0.300	0.300	10/04/2023	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	12400	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 46 @ 6' (H235333-14)

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	10/04/2023	ND	1.95	97.6	2.00	0.709		
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634		
Total BTEX	<0.300	0.300	10/04/2023	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	4720	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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: 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: 09/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 47 @ 3' (H235333-15)

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	10/04/2023	ND	1.95	97.6	2.00	0.709		
Toluene*	<0.050	0.050	10/04/2023	ND	1.98	98.8	2.00	0.294		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	1.90	94.9	2.00	0.117		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	5.70	95.0	6.00	0.0634		
Total BTEx	<0.300	0.300	10/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	3520	16.0	10/02/2023	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	10/02/2023	ND	212	106	200	0.792	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	236	118	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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 "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

[illegible]

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Relinquished By: Aaron Rios		Date: 7-29-23	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: Email results to pm@etechenv.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date:	Received By:		
392 #140		Time:			
		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]		

† 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:																				
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: Aaron KieS				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	Chloride	TPH	BTEX 8021							
4235333																								
11	FL # 43 @ 6'	X				X				X			9/29/23		X	X	X							
12	FL # 44 @ 6'	X				X				X					X	X	X							
13	FL # 45 @ 3'	X				X				X					X	X	X							
14	FL # 46 @ 6'	X				X				X					X	X	X							
15	FL # 47 @ 3'	X				X				X			9/29/23		X	X	X							

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Relinquished By: <i>Aaron KieS</i>	Date: 9/29/23 Time: 10:45	Received By: <i>Shod Riquel</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Time:	Received By:	REMARKS: Email results to pm@etechenv.com	
Delivered By: (Circle One) <i>39C</i> <input checked="" type="checkbox"/> Sampler - <input type="checkbox"/> UPS - <input type="checkbox"/> Bus - <input type="checkbox"/> Other: <i>#140</i>	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	CHECKED BY: (Initials) <i>SK</i>		

† 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



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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, 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	10/10/2023	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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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: 10/06/2023
 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)

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) 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



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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)

BTEx 8021B		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) 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



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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)

BTEx 8021B		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) 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	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

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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: 10/06/2023
 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, SM4500Cl-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



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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



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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



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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, SM4500CI-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)

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	10/09/2023	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 BTX	<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 #:
	Time: 16:15		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:		*customer added sample date. 8/23/23	
Delivered By: (Circle One) -S-8:	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input 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



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: Hobbs																					
Project Name: Lobo 285 SWD Water Reuse				State: Zip:																					
Project Location: UL/ A Sec 22 T25S - R28E				Phone #:																					
Sampler Name: <u>Dominic Casarez</u>				Fax #:																					
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		G/RAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING		DATE		TIME		Chloride		TPH		BTEX 8021			
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :	
H235472		DC 11		FL 10 @ 6in		C 1																			
12		FL 11 @ 6in				C 1																			
13		FL 12 @ 6in				C 1																			

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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>		Date:		Time:		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:		Date:		Time:					
Delivered By: (Circle One) <u>-5-8-</u>				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <u>Sc</u>			

† 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)

BTEX 8021B		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	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

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: 10/09/2023
 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	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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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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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



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Analytical Results For:

Etech Environmental & Safety Solutions
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 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, SM4500Cl-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

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Analytical Results For:

Etech Environmental & Safety Solutions
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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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	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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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 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



PHONE (575) 393-2326 ° 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 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, SM4500Cl-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



PHONE (575) 393-2326 ° 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: 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, SM4500CI-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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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: 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



PHONE (575) 393-2326 ° 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: 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".

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: UI/ A Sec 22 T25S - R28E				Phone #:																																									
Sampler Name: <u>Dominic Casarez</u>				Fax #:																																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		Chloride		TPH		BTX 8021											
H235496				C		1																				10-9																			
DC		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: <u>10-9-23</u>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: <u>16:18</u>		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time:		Sample Condition		CHECKED BY: (Initials)		REMARKS: Email results to pm@etechenv.com	
Sampler - UPS - Bus - Other:		3:30		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>			

† 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:																							
Project #: 15510		Project Owner: LLC				City:																							
Project Name: Lobo 285 SWD Water Reuse						State:						Zip:																	
Project Location: UL / A Sec 22 T2S - R28E						Phone #:																							
Sampler Name: Dominic Casarez						Fax #:																							
FOR LAB USE ONLY				(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING															
Lab I.D.		Sample I.D.						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021								
DC	11 RT@3in	C	1														10-7		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	12 NW1																												
	13 SW1																												
	14 WW1																												
	15 WW2																												
	16 EW1																												
	17 EW2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

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Relinquished By: 		Date: 10-9	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____		Time: 16:18	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Time: _____	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	REMARKS: Email results to pm@etechenv.com	
			CHECKED BY: (Initials) 		

† 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 16, 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 10/11/23 16:11.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 56 @ 1 FT (H235553-01)

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	10/12/2023	ND	1.94	97.2	2.00	1.64	
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28	
Total BTX	<0.300	0.300	10/12/2023	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	1120	16.0	10/12/2023	ND	448	112	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	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 57 @ 1 FT (H235553-02)

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	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEx	<0.300	0.300	10/12/2023	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	2440	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 58 @ 1 FT (H235553-03)

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	10/12/2023	ND	1.94	97.2	2.00	1.64		
Toluene*	<0.050	0.050	10/12/2023	ND	1.90	95.0	2.00	0.0988		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.98	99.2	2.00	0.796		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.76	95.9	6.00	1.28		
Total BTEX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	3720	16.0	10/12/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 59 @ 1 FT (H235553-04)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	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	576	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 60 @ 1 FT (H235553-05)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	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	2200	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 61 @ 1 FT (H235553-06)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEx	<0.300	0.300	10/12/2023	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	880	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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

Analytical Results For:

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

Received: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 62 @ 1 FT (H235553-07)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEx	<0.300	0.300	10/12/2023	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	1440	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 63 @ 1 FT (H235553-08)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	880	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 104 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 64 @ 1 FT (H235553-09)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	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	2200	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 106 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 65 @ 1 FT (H235553-10)

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	10/12/2023	ND	2.02	101	2.00	5.61		
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79		
Total BTX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1680	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 101 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 66 @ 1 FT (H235553-11)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	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	800	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 67 @ 1 FT (H235553-12)

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	10/12/2023	ND	2.02	101	2.00	5.61		
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79		
Total BTEx	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1010	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 104 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 68 @ 1 FT (H235553-13)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	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	1880	16.0	10/12/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 104 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 69 @ 1 FT (H235553-14)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	528	16.0	10/12/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 105 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 70 @ 1 FT (H235553-15)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	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	288	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 71 @ 1 FT (H235553-16)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTX	<0.300	0.300	10/12/2023	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	912	16.0	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H235553-17)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEx	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	10/12/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 101 % 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: 10/11/2023
 Reported: 10/16/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 3 (H235553-18)

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	10/12/2023	ND	2.02	101	2.00	5.61	
Toluene*	<0.050	0.050	10/12/2023	ND	1.91	95.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	1.99	99.3	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.63	93.9	6.00	6.79	
Total BTEx	<0.300	0.300	10/12/2023	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	6400	16.0	10/12/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	188	94.0	200	3.25	
DRO >C10-C28*	29.8	10.0	10/12/2023	ND	185	92.4	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 21 of 22

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 Caswell																																	
FOR LAB USE ONLY																																	
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																							
				# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		Chloride		TPH		BTEX 8021	
H235553		FL 52 @ 1 ft		C		✓																		10-11									
1		FL 57 @ 1 ft																															
2		FL 58 @ 1 ft																															
3		FL 59 @ 1 ft																															
4		FL 60 @ 1 ft																															
5		FL 61 @ 1 ft																															
6		FL 62 @ 1 ft																															
7		FL 63 @ 1 ft																															
8		FL 64 @ 1 ft																															
9		FL 65 @ 1 ft																															
10																																	

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Relinquished By:	Date: 10-11	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 10-11	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS: Email results to pm@etechenv.com	
Sampler - UPS - Bus - Other:	4.9i	Cool Intact	added Rush on 10/12/23 @ 1408	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	to TPH only.	
		<input type="checkbox"/> No <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



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: Dominick Casarez				Fax #:																													
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride		TPH		BTX 8021	
H235553		DC 11 FL 66 @ 1 ft		C 1																				10-11									
		12 FL 67 @ 1 ft																															
		13 FL 68 @ 1 ft																															
		14 FL 69 @ 1 ft																															
		15 FL 70 @ 1 ft																															
		16 FL 71 @ 1 ft																															
		17 NW 2																															
		18 EW 3																															

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Relinquished By:		Date: 10-11		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 1611						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:						added Rush on 10/12/23 @ 1408 to TPH only Y.O.			
Delivered By: (Circle One)		#140		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:		4.9c		Cool Intact		Y.O.			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<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



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

October 18, 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 10/12/23 16:11.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 72 @ 3 IN. (H235589-01)

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	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTX	<0.300	0.300	10/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	2080	16.0	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	QM-07
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.7 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 73 @ 3 IN. (H235589-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	1410	16.0	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.6 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 74 @ 3 IN. (H235589-03)

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	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	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	736	16.0	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 75 @ 3 IN. (H235589-04)

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	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	416	16.0	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 76 @ 3 IN. (H235589-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTEX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	816	16.0	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 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
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 Fax To:

Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 77 @ 3 IN. (H235589-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTEX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	384	16.0	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 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
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Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 78 @ 3 IN. (H235589-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	1170	16.0	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 79 @ 3 IN. (H235589-08)

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	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	10/13/2023	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	10/13/2023	ND	185	92.6	200	3.43	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	178	89.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 80 @ 3 IN. (H235589-09)

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	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	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	2800	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	31.3	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 81 @ 3 IN. (H235589-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTEX	<0.300	0.300	10/14/2023	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	2680	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	34.4	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 67.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 Fax To:

Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 82 @ 3 IN. (H235589-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	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	608	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 83 @ 3 IN. (H235589-12)

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	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTEx	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	208	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 84 @ 3 IN. (H235589-13)

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	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTEx	<0.300	0.300	10/14/2023	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	400	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
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Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 85 @ 3 IN. (H235589-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	2920	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	51.6	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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
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Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 86 @ 3 IN. (H235589-15)

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	10/14/2023	ND	1.94	97.0	2.00	0.799		
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33		
Total BTX	<0.300	0.300	10/14/2023	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	560	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 87 @ 3 IN. (H235589-16)

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	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTX	<0.300	0.300	10/14/2023	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	160	16.0	10/13/2023	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	10/13/2023	ND	185	92.4	200	0.728	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	169	84.4	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 88 @ 3 IN. (H235589-17)

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	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	416	16.0	10/13/2023	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*	<10.0	10.0	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 2617 W MARLAND
 HOBBS NM, 88240
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Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 89 @ 3 IN. (H235589-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTX	<0.300	0.300	10/14/2023	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	3320	16.0	10/13/2023	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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	61.1	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 90 @ 3 IN. (H235589-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTX	<0.300	0.300	10/14/2023	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	400	16.0	10/13/2023	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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To:

Received: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 91 @ 3 IN. (H235589-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTEx	<0.300	0.300	10/14/2023	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	3200	16.0	10/13/2023	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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	42.3	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 54.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 92 @ 3 IN. (H235589-21)

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	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTEx	<0.300	0.300	10/14/2023	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	240	16.0	10/13/2023	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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 67.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 93 @ 3 IN. (H235589-22)

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	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTEx	<0.300	0.300	10/14/2023	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	3360	16.0	10/13/2023	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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	65.1	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 59.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 94 @ 3 IN. (H235589-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTX	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	208	16.0	10/13/2023	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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	<10.0	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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: 10/12/2023
 Reported: 10/18/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 95 @ 3 IN. (H235589-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2023	ND	1.89	94.3	2.00	1.64		
Toluene*	<0.050	0.050	10/14/2023	ND	1.80	89.9	2.00	3.00		
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	1.87	93.4	2.00	3.49		
Total Xylenes*	<0.150	0.150	10/14/2023	ND	5.44	90.7	6.00	3.83		
Total BTEx	<0.300	0.300	10/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	1100	16.0	10/13/2023	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	10/13/2023	ND	188	94.1	200	1.31	
DRO >C10-C28*	30.3	10.0	10/13/2023	ND	199	99.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	10/13/2023	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

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



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. #:													
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: Dominic Casarez																	
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH	BTEX 8021							
H235589																	
DC	1 FL 72 @ 3in	C	1														
	2 FL 73 @ 3in																
	3 FL 74 @ 3in																
	4 FL 75 @ 3in																
	5 FL 76 @ 3in																
	6 FL 77 @ 3in																
	7 FL 78 @ 3in																
	8 FL 79 @ 3in																
	9 FL 80 @ 3in																
	10 FL 81 @ 3in																

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Relinquished By:	Date: 10-12-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1611		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:		Rush 24hrs TPH only	
Delivered By: (Circle One)	#140	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: 3.3c		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)	

† 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: 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: Dominic Casarez																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021						
H235589																						
DC 11	FL 82 @ 3 in		1									10-12										
12	FL 83 @ 3 in																					
13	FL 84 @ 3 in																					
14	FL 85 @ 3 in																					
15	FL 86 @ 3 in																					
16	FL 87 @ 3 in																					
17	FL 88 @ 3 in																					
18	FL 89 @ 3 in																					
19	FL 90 @ 3 in																					
20	FL 91 @ 3 in																					

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Relinquished By: <i>[Signature]</i>		Date: 10-12-23	Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 1611			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 <i>Busk! 24hrs TPH only</i>			
		Time:						
Delivered By: (Circle One)			#140	Sample Condition		CHECKED BY:		
Sampler - UPS - Bus - Other: 3.3c				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>[Signature]</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: 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: Dominic Casarez																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BYEX 8021						
4235589	FL 92 @ 3 in	C	1			✓				✓		10-12			✓	✓						
82	FL 93 @ 3 in																					
23	FL 94 @ 3 in																					
34	FL 95 @ 3 in																					

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Relinquished By:	Date: 10-12	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1611		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: 3.3c		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

† 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)

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) 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/16/2023	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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Analytical Results For:

Etech Environmental & Safety Solutions
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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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	10/16/2023	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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Analytical Results For:

Etech Environmental & Safety Solutions
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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, 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 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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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)

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) 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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Analytical Results For:

Etech Environmental & Safety Solutions
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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)

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) 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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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, 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	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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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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Analytical Results For:

Etech Environmental & Safety Solutions
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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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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)

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) 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



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Analytical Results For:

Etech Environmental & Safety Solutions
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 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	10/16/2023	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
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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
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 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, 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 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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)

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) 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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Analytical Results For:

Etech Environmental & Safety Solutions
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 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, SM4500CI-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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Analytical Results For:

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 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

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: - 1.12		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 CCC 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. #:													
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 #:		Fax #:											
Project Location: Rural Eddy																	
Sampler Name: Dominil Casarez																	

Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		Chloride	TPH	BTEX 8021	Rush TPH 24 hr	Rush Chloride 24 hr
				GROUNDWATER	WASTEWATER	SOIL	OIL	SEDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE					
H235612																		
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: -1.1c		Cool <input type="checkbox"/> Intact <input 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, 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*	<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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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

Appendix E

Regulatory Correspondence

Ben Arguijo

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Thursday, September 21, 2023 5:50 PM
To: Tamarah Kendrick; eco@slo.state.nm.us; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: Joel Lowry; Zach Conder
Subject: RE: [EXTERNAL] nAPP2135135752 - Solaris Water Midstream - Sampling Notification - Lobo 285 Water Reuse

You don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

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.

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Tamarah Kendrick <tamarah@etechenv.com>
Sent: Thursday, September 21, 2023 4:42 PM
To: eco@slo.state.nm.us; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Joel Lowry <joel@etechenv.com>; Zach Conder <zach@etechenv.com>
Subject: [EXTERNAL] nAPP2135135752 - Solaris Water Midstream - Sampling Notification - Lobo 285 Water Reuse

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 conduct confirmation soil sampling for the following reportable release site beginning 09/26/2023.

nAPP2135135752 – Lobo 285 Water Reuse

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



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 280791

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 280791
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/18/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/18/2024