ENSOLUM

December 2, 2025

New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
Remuda Basin Battery
API Number 30-015-28422
Incident Numbers NJMW1303140115 and NMAP1825437863
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* as a follow-up to the *Deferral Request* related to the 2010 crude oil release dated November 10, 2011, and *Deferral Request Addendum* of the 2018 crude oil and produced water release dated June 11, 2021. This *Closure Request* documents excavation and soil sampling activities of the approved deferral extents completed at the Remuda Basin Battery (Site). Based on the additional remediation activities described below, XTO is submitting this *Closure Request* and requesting no further action and closure for Incident Numbers NJMW1303140115 and NMAP1825437863.

SITE DESCRIPTION AND RELEASE SUMMARY

Following a review of historical documentation and release information, the Site is confirmed to be located in Unit F, Section 19, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.290858°, -103.92332°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (SLO) under lease number E0-5229-0011. Please note that the Incidents reference API 30-015-28422, located approximately 0.09 miles to the north and Facility ID FAPP2126043119, located approximately 1.5 miles to the south from the Site. No API or Facility ID is referenced on the Site well pad.

NJMW1303140115

On August 30, 2010, a human error while loading crude oil resulted in the release of approximately 53 barrels (bbls) of crude oil into the facility berm. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 46 bbls of crude oil were recovered. XTO reported the release to the NMOCD on an Initial C-141 Application (C-141) on September 2, 2010. The release was assigned Remediation Permit (RP) Number 2RP-1534 and Incident Number NJMW1303140115.

NMAP1825437863

On August 21, 2018, equipment failure resulted in the release of approximately 1 bbl of crude oil and 54 bbls of produced water within the earthen containment. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 1 bbl of crude oil and 49 bbls of produced water were

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recovered. XTO reported the release to the NMOCD on a C-141 on August 24, 2018. The release was assigned RP Number 2RP-4958 and Incident Number NMAP1825437863.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and sensitive receptors are depicted on Figure 1.

Depth to groundwater at the Site is between 51 feet and 100 feet below ground surface (bgs) based on a recent gauging of a livestock watering well. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321742103552601, located approximately 0.3 miles north of the Site. The most recent recorded depth to groundwater was reported as 66.1 feet bgs on May 6, 1993. Due to the age of the depth to groundwater data, Ensolum conducted a field investigation of the well. On June 11, 2024, the well was gauged with an oil/water interface probe to determine the current depth to groundwater. The USGS well had a depth to groundwater of 66.45 feet bgs and a total depth of 100 feet bgs. The well record and groundwater measurement form from June 11, 2024 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 165 feet west of the Site. On July 9, 2025, a pedestrian survey was conducted by Ensolum personnel of the seasonal dry wash to confirm the feature complies with the definition of a significant watercourse per Subsection P of 19.15.17.7 NMAC. Ensolum was able to confirm the seasonal dry wash does not have an established bed and bank in the area north of the lease road or within 300 feet of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. As noted in the approved *Deferral Request Addendum* in relation to the 2018 release, a pedestrian karst survey was completed in 2020. A Bureau of Land Management (BLM) certified karst specialist conducted a pedestrian survey to determine the presence or absence of surface karst-related features within a 650 feet radius of the Site. No surface karst features were located within the pedestrian survey area.

On July 15, 2025 a variance request to the applied NMOCD Table I Closure Criteria (Closure Criteria) was submitted via email to the NMOCD. On July 16, 2025, NMOCD approved the variance request. All correspondence is included in Appendix B. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization and approved variance request, the following Closure Criteria were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

Since the well pad was being reclaimed, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the Site per NMAC 19.15.29.13.D (1), for areas that will be reclaimed.

SLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

Since the releases occurred on the well pad, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with this release.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. Threatened and endangered bird species (Piping Plover) and clam species (Texas Hornshell mussel) are potentially present in the area surrounding the Site; however, no native vegetation outside of the well pad extent was disturbed during remediation activities.
- The Site is not located within an area of possible range of the Lesser Prairie Chicken habitat based on a review of SLO Candidate Conservation Agreement with Assurances (CCAA) map.
- No environmentally sensitive receptors were located near the Site, as determined by the Site Characterization.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Reeves-Gypsum land complex. The Reeve-Gypsum land complex is not considered a sensitive soil per the SLO guidelines.

BACKGROUND

NJMW1303140115

Between 2010 and 2011, delineation and bio-remediation activities were conducted at the Site by Talon/LPE (Talon) to address impacted soil resulting from the August 30, 2010, crude oil release. Eight soil samples were collected via hand auger from three locations (S-1 through S-3) within the release at depths ranging from the ground surface to 2 feet bgs to assess the vertical extent of impacted soil. Laboratory analytical results for soil samples collected from S-1 through S-3 indicated TPH concentrations exceeded the Site Closure and/or reclamation requirement at depths ranging from the ground surface to 1-foot bgs. Due to the presence of active subsurface utilities at the Site, excavation activities could not be completed. The impacted area was scraped/furrowed using pickaxes and hand tools to enhance absorption of the MicroBlaze® solution. A total of 1,000 gallons of MicroBlaze® solution was applied to the release area. Talon collected confirmation soil samples in the vicinity of the original S-1 through S-3 locations at depths ranging from the ground surface to 2 feet bgs. Laboratory analytical results for the confirmation samples indicated TPH concentrations exceeded the Closure Criteria and/or reclamation requirements. Based on delineation and bio-remediation activities, a *Soil Assessment and Remediation Report* was submitted to the NMOCD on November 14, 2011. The NMOCD approved the *Soil Assessment and Remediation Report* on August 2, 2023, during a historical incident review, and is included for reference. The approximate deferral area is depicted on Figure 2.

NMAP1825437863

Between October 2018 and July 2020, delineation, excavation, and bio-remediation activities were conducted at the Site by WSP USA Inc. (WSP) to address impacted soil resulting from the August 21, 2018 crude oil and produced water release. Impacted soil was excavated to the maximum extent possible; however, an estimated 835 cubic yards of impacted soil was left in-place immediately adjacent to active production equipment to comply with XTO safety policy. Excavation was limited vertically by the presence of shallow competent bedrock. Based on remediation activities completed at the Site, a *Deferral Request Addendum* was submitted to the NMOCD on July 23, 2021. The NMOCD approved the *Deferral Request Addendum* on May 26, 2022. Additional details regarding the delineation, excavation, bio-remediation, karst assessment activities, and original *Deferral Request* can be referenced in the *Deferral Request Addendum*, dated June 11, 2021, included for reference. The approximate deferral area is depicted on Figure 2.

EXCAVATION ACTIVITIES

Between July 1, 2025, and August 25, 2025, Ensolum personnel were at the Site to oversee excavation activities to address impacted soil that was left in place around former production equipment. The previous deferral areas are presented on Figure 2 and detailed in the attached reports. Excavation activities were performed using a trackhoe and transport vehicles. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The excavation was completed to depths ranging from 2 feet to 10.5 feet bgs.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS68 were collected from the floor of the excavation at depths ranging from 2 feet to 10.5 feet bgs. Confirmation soil samples SW01 through SW17 were collected from the sidewalls of the excavations at depths ranging from the ground surface to a maximum of 10.5 feet bgs. The excavation extents and soil sample locations are presented on Figure 3. Photographic documentation of the excavation activities is included in Appendix D.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

Laboratory analytical results for all final confirmation soil samples, collected from the final excavation extents, indicated that all COC concentrations were compliant with the Closure Criteria and reclamation requirements, where applicable. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

The excavation areas measured approximately 13,351 square feet. Approximately 1,960 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Facility in Hobbs, New Mexico.

CLOSURE REQUEST

Excavation activities were conducted at the Site to address the remaining impacted soil resulting from the August 30, 2010, crude oil release and August 21, 2018, crude oil and produced water release as documented in the approved deferral reports, included as Appendix E and Appendix F, respectively. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extents, indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirements, where applicable. Based on the soil sample analytical results, no further remediation is required.

In addition, the well pad is currently undergoing plugging and abandonment activities in accordance with the approved *Reclamation Plan* submitted to the SLO.

Initial response efforts, natural attenuation, and excavation of impacted soil have mitigated impacts at this Site. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Numbers NJMW1303140115 and NMAP1825437863.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Hadlie Green
Project Geologist

Tacoma Morrissey
Associate Principal

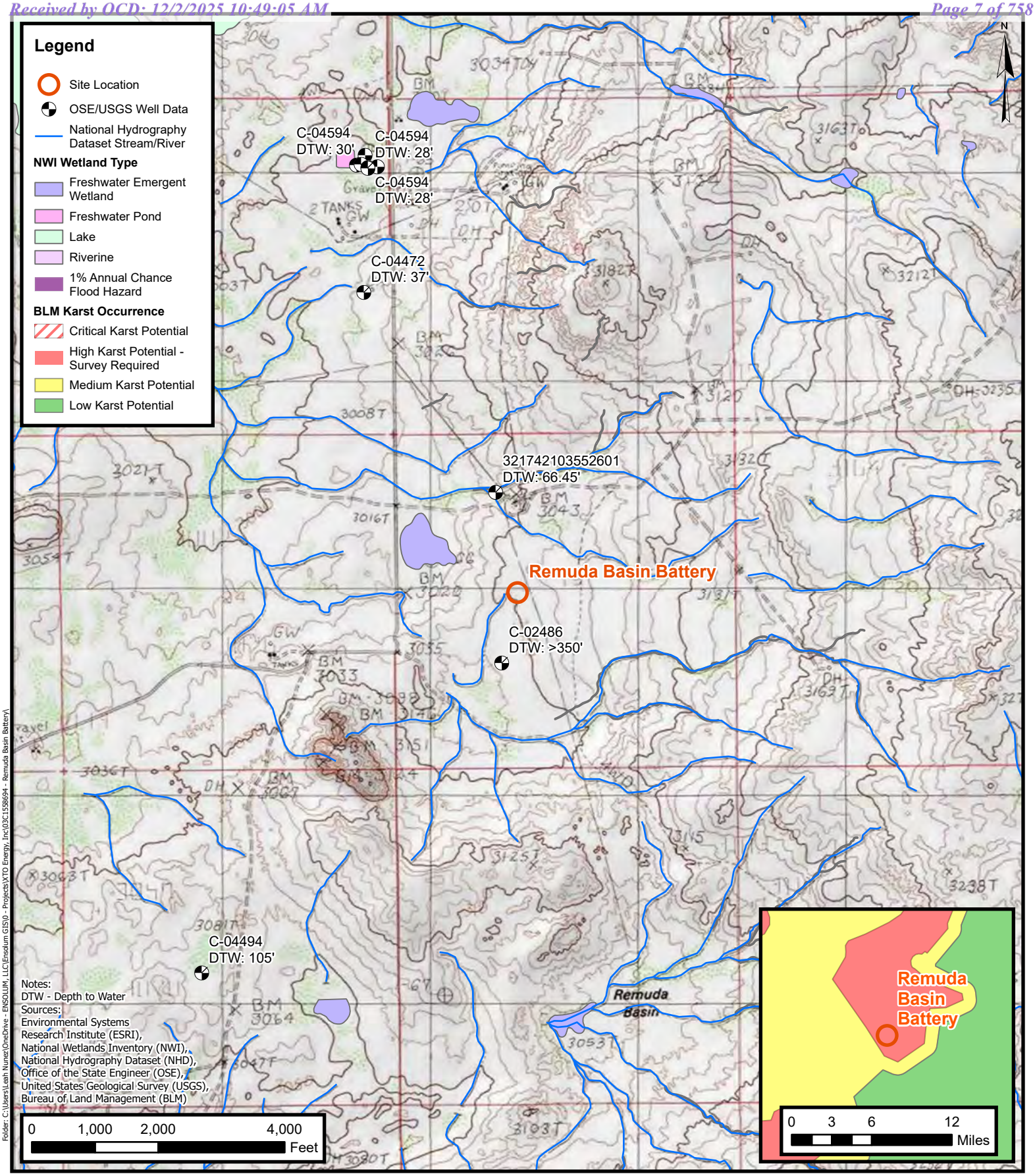
cc: Robert Woodall, XTO
Richard Kotzur, XTO
Amy Ruth, XTO
SLO

Appendices:

Figure 1	Site Receptor Map
Figure 2	Previous Deferral Areas
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	NMOCD Correspondence
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	November 14, 2011, *Soil Assessment and Remediation Report*
Appendix F	June 11, 2021, *Deferral Request Addendum*

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FIGURES



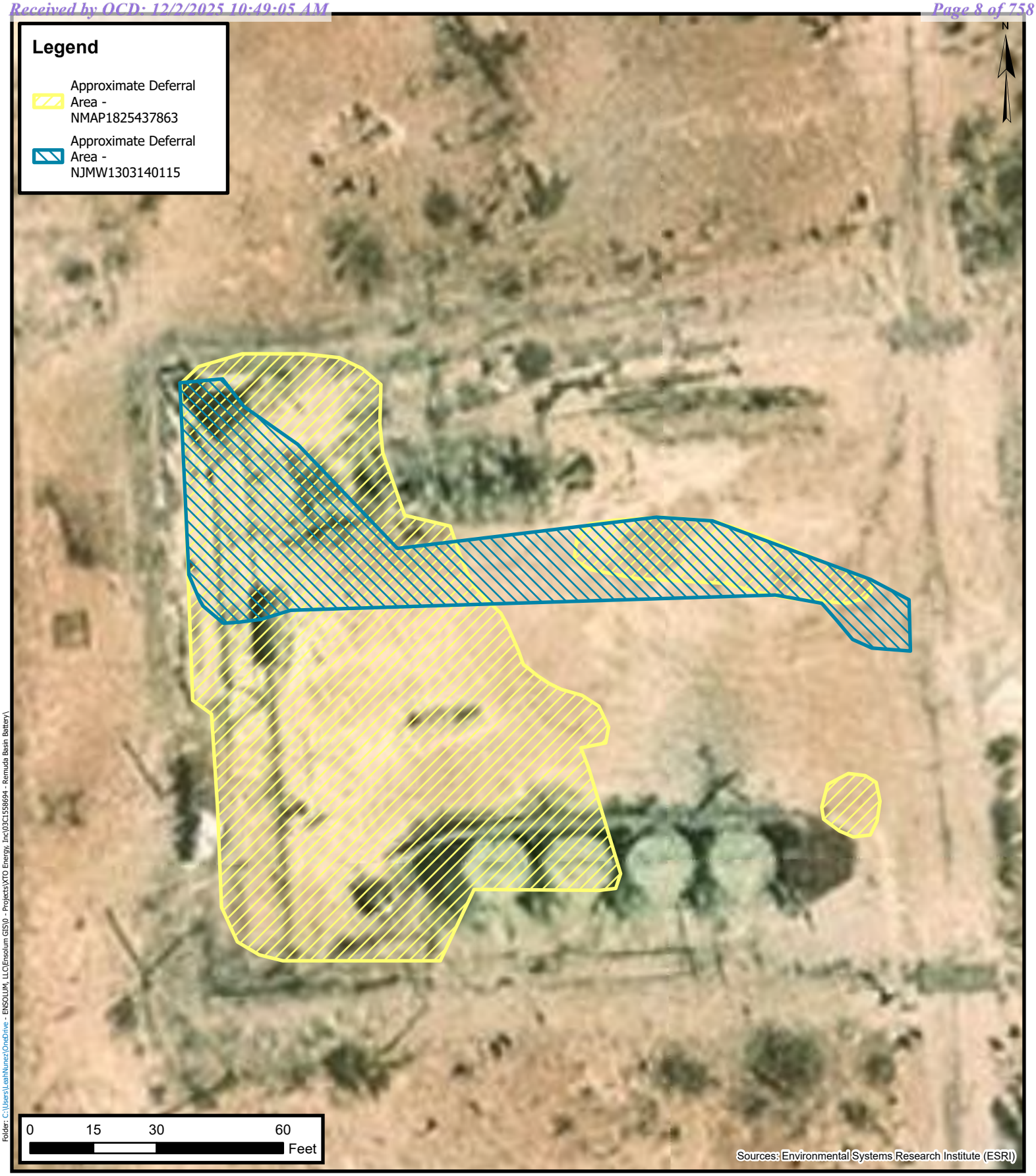
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Site Receptor Map

XTO Energy, Inc.
Remuda Basin Battery
Incident Numbers: NMAP1825437863 and NJMW1303140115
Unit F, Section 19, T 23S, R 30E
Eddy County, New Mexico

FIGURE 1



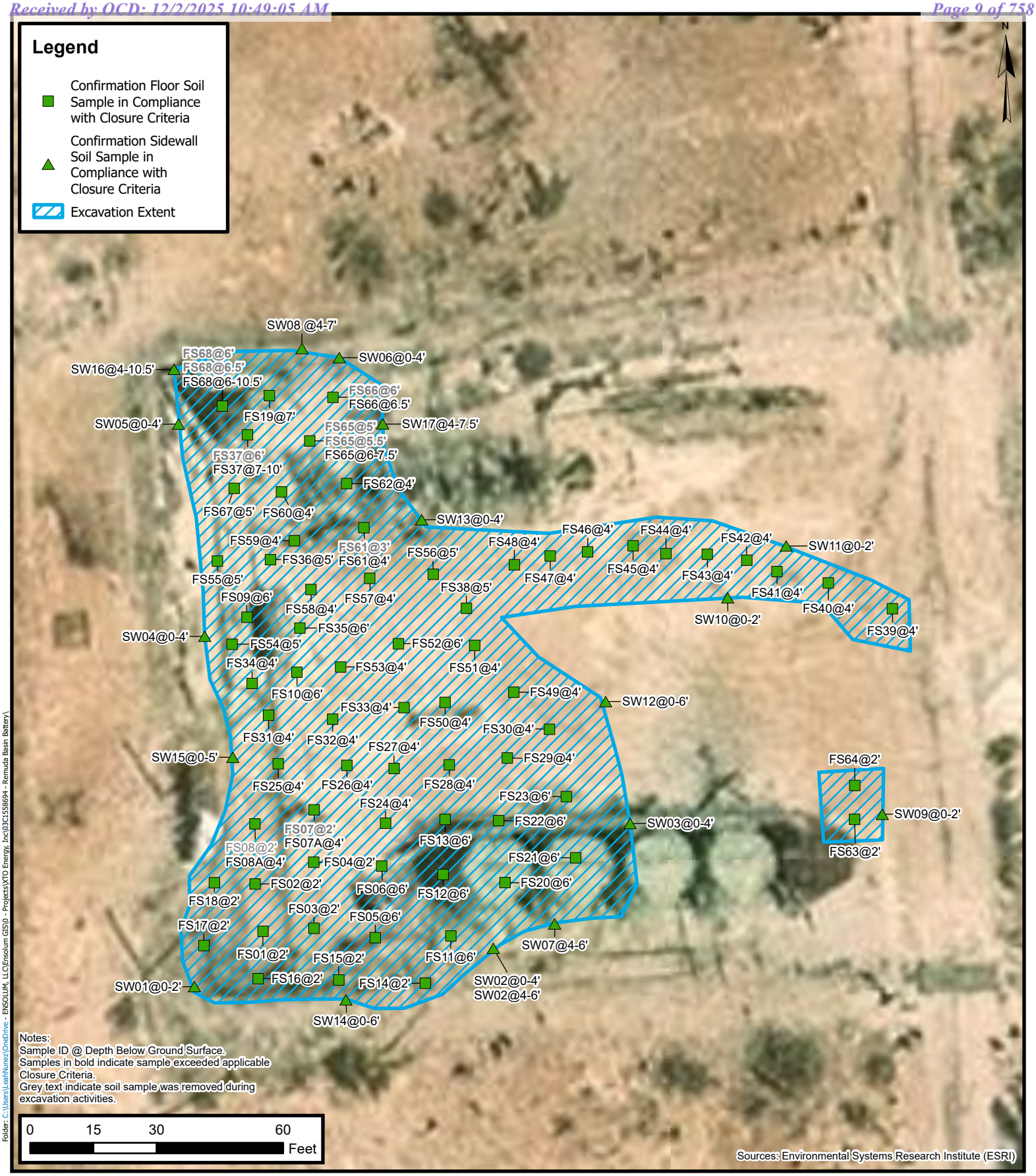
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Previous Deferral Areas

XTO Energy, Inc
Remuda Basin Battery
Incident Numbers: NMAP1825437863 and NJMW1303140115
Unit F, Section 19, T 23S, R 30E
Eddy County, New Mexico

FIGURE 2



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Confirmation Soil Sample Locations

XTO Energy, Inc
Remuda Basin Battery
Incident Numbers: NMAP1825437863 and NJMW1303140115
Unit F, Section 19, T 23S, R 30E
Eddy County, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria 19.15.29)		(NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
Confirmation Soil Samples										
FS01	07/01/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	07/01/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS03	07/01/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS04	07/01/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS05	07/09/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040
FS06	07/09/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	704
~~FS07~~	~~07/10/2025~~	~~2~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~1,500~~	~~494~~	~~1,500~~	~~**1,994**~~	~~272~~
FS07A	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
~~FS08~~	~~07/10/2025~~	~~2~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~19.3~~	~~21.3~~	~~19.3~~	~~40.6~~	~~288~~
FS08A	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS09	07/11/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS10	07/11/2025	6	<0.050	<0.300	<10.0	18.8	<10.0	18.8	18.8	64.0
FS11	07/11/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS12	07/11/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS13	07/11/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	07/15/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS15	07/15/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS16	07/16/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS17	07/15/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS18	07/16/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS19	07/16/2025	7	<0.050	<0.300	<10.0	668	106	668	774	304
FS20	07/16/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS21	07/16/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS22	07/16/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS23	07/16/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS24	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS25	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria 19.15.29)		(NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
FS26	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS27	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS28	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS29	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS30	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS31	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS32	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS33	07/16/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS34	08/06/2025	4	<0.050	<0.300	<10.0	809	301	809	1,110	96.0
FS35	08/06/2025	6	<0.050	<0.300	<10.0	296	93.6	296	390	80.0
FS36	08/06/2025	5	<0.050	<0.300	<10.0	154	86.9	154	241	176
~~FS37~~	~~08/06/2025~~	~~6~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~2,110~~	~~711~~	~~**2,110**~~	~~**2,821**~~	~~320~~
FS37	08/13/2025	10	<0.050	<0.300	<10.0	368	95.4	368	463	96.0
FS38	08/06/2025	5	<0.050	<0.300	<10.0	<10.0	10.3	<10.0	10.3	480
FS39	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
FS40	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS41	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS42	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS43	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS44	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS45	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS46	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS47	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS48	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS49	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS50	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS51	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS52	07/22/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Battery
XTO Energy, Inc.
Eddy County, New Mexico

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NMOCD Table I Closure Criteria 19.15.29)		(NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
FS53	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS54	07/22/2025	5	<0.050	<0.300	<10.0	81.6	12.5	81.6	94.1	48.0
FS55	07/22/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS56	07/22/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS57	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS58	07/22/2025	4	<0.050	<0.300	<10.0	13.4	<10.0	13.4	13.4	144
FS59	07/22/2025	4	<0.050	<0.300	<10.0	64.0	13.5	64.0	77.5	48.0
FS60	07/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
~~FS61~~	~~07/23/2025~~	~~3~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~272~~	~~107~~	~~272~~	~~**379**~~	~~352~~
FS61	08/06/2025	4	<0.050	<0.300	<10.0	54.0	28.9	54.0	82.9	96.0
FS62	07/23/2025	4	<0.050	<0.300	<10.0	218	77.2	218	295	80.0
FS63	07/23/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS64	07/23/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
~~FS65~~	~~07/24/2025~~	~~5~~	~~<0.050~~	~~1.06~~	~~75.5~~	~~1,760~~	~~371~~	~~**1,836**~~	~~2,207~~	~~96.0~~
~~FS65~~	~~08/06/2025~~	~~5.5~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~1,370~~	~~479~~	~~**1,370**~~	~~1,849~~	~~112~~
FS65	08/13/2025	7.5	<0.050	<0.300	<10.0	256	59.0	256	315	320
~~FS66~~	~~07/24/2025~~	~~6~~	~~<0.050~~	~~<0.300~~	~~25.8~~	~~2,220~~	~~558~~	~~**2,246**~~	~~**2,804**~~	~~304~~
FS66	08/06/2025	6.5	<0.050	<0.300	<10.0	447	92.2	447	539	128
FS67	07/24/2025	5	<0.050	<0.300	<10.0	21.2	<10.0	21.2	21.2	48.0
~~FS68~~	~~07/24/2025~~	~~6~~	~~<0.050~~	~~3.49~~	~~288~~	~~4,570~~	~~894~~	~~**4,858**~~	~~**5,752**~~	~~80.0~~
~~FS68~~	~~08/06/2025~~	~~6.5~~	~~<0.050~~	~~<0.300~~	~~<10.0~~	~~1,990~~	~~451~~	~~**1,990**~~	~~2,441~~	~~176~~
FS68	08/13/2025	10.5	<0.050	<0.300	<10.0	40.6	<10.0	40.6	40.6	96.0
SW01	07/11/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW02	07/11/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW02	07/11/2025	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW03	07/16/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW04	07/16/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW05	07/16/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
SW06	07/16/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW07	07/16/2025	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW08	07/16/2025	4-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW09	07/24/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW10	07/24/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW11	07/24/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW12	07/24/2025	0-6	<0.050	<0.300	<10.0	10.3	<10.0	10.3	10.3	112
SW13	07/24/2025	0-4	<0.050	<0.300	<10.0	72.6	16.2	72.6	88.8	48.0
SW14	07/24/2025	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW15	07/24/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW16	08/25/2025	4-10.5	<0.050	<0.300	<10.0	10.1	<10.0	10.1	10.1	48.0
SW17	08/25/2025	4-7.5	<0.050	<0.300	<10.0	24.9	<10.0	24.9	24.9	48.0

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMAC: New Mexico Administrative Code
~~Grey~~ text indicates soil sample removed during excavation activities

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APPENDIX A

Referenced Well Records

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321742103552601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321742103552601 23S.30E.19.123421

Eddy County, New Mexico
Latitude 32°17'42", Longitude 103°55'26" NAD27
Land-surface elevation 3,034 feet above NAVD88
The depth of the well is 100 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
1959-02-06		D	62610		2954.29	NGVD29	P	Z			A
1959-02-06		D	62611		2955.90	NAVD88	P	Z			A
1959-02-06		D	72019	78.10			P	Z			A
1959-04-07		D	62610		2963.09	NGVD29	1	Z			A
1959-04-07		D	62611		2964.70	NAVD88	1	Z			A
1959-04-07		D	72019	69.30			1	Z			A
1972-09-20		D	62610		2963.64	NGVD29	1	Z			A
1972-09-20		D	62611		2965.25	NAVD88	1	Z			A
1972-09-20		D	72019	68.75			1	Z			A
1975-12-09		D	62610		2963.40	NGVD29	1	Z			A
1975-12-09		D	62611		2965.01	NAVD88	1	Z			A
1975-12-09		D	72019	68.99			1	Z			A
1976-01-15		D	62610		2962.29	NGVD29	1	Z			A
1976-01-15		D	62611		2963.90	NAVD88	1	Z			A
1976-01-15		D	72019	70.10			1	Z			A
1977-01-19		D	62610		2963.99	NGVD29	1	Z			A
1977-01-19		D	62611		2965.60	NAVD88	1	Z			A
1977-01-19		D	72019	68.40			1	Z			A
1987-10-14		D	62610		2965.07	NGVD29	1	Z			A
1987-10-14		D	62611		2966.68	NAVD88	1	Z			A
1987-10-14		D	72019	67.32			1	Z			A
1993-05-06		D	62610		2966.29	NGVD29	1	S			A
1993-05-06		D	62611		2967.90	NAVD88	1	S			A
1993-05-06		D	72019	66.10			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

Section	Code	Description
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
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Accessibility FOIA Privacy Policies and Notices

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2025-12-01 11:35:56 EST
0.37 0.3 nadww01

Client: XTO Energy, Inc.

Project Name: Remuda Basin 19 Fed #2 SWD

Project Location: Eddy County, New Mexico

Project Manager: Tacoma Morrissey

GROUNDWATER MEASURMENT FORM

ENSOLUM

SAMPLING INFORMATION

Soil Boring / Monitor Well Number: 321742103552601

Project #: 03C1558239

Date Completed: 6/11/2024

Type of Water Quality Meter: NA

Total Depth of Monitor Well: 100'

Date Calibrated: NA

Screen Interval: NA

Other Notes: Groundwater monitoring well measured to confirm depth to groundwater

Sample Tubing Intake Depth: NA

Geologist: Connor Whitman

Monitor Well Detail

Tubing Placement | GW Depth (static) | After Purge

Time (minutes)	Purge Rate (L/min)	Temp. (ºC)	pH (unitless)	DO (mg/L)	ORP (mV)	Cond. (mS/cm)	GW Depth (feet)
0844	NR	NR	NR	NR	NR	NR	66.45'

Comments:

NA = Not Available
NR = Not Recorded

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APPENDIX B

NMOCD Correspondence

Tracy Hillard

Subject: FW: [EXTERNAL] XTO - Closure Criteria Variance - Remuda Basin Battery - Incident Numbers: NJMW1303140115 and NMAP1825437863

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, July 16, 2025 2:37 PM
To: robert.d.woodall@exxonmobil.com <robert.d.woodall@exxonmobil.com>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: Re: [EXTERNAL] XTO - Closure Criteria Variance - Remuda Basin Battery - Incident Numbers: NJMW1303140115 and NMAP1825437863

[**EXTERNAL EMAIL**]

Good afternoon Dale,

Thank you for the correspondence.

Your request to apply a variance toward the Closure Standards to reflect groundwater between 51 feet and 100 feet bgs as shown in Table 1 of 19.15.29 NMAC is approved. Your attachment will be placed into the incident files within both incidents.

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

Regards,

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

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, July 15, 2025 1:14 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] XTO - Closure Criteria Variance - Remuda Basin Battery - Incident Numbers: NJMW1303140115 and NMAP1825437863

From: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Sent: Tuesday, July 15, 2025 12:56 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: tmorrissey@ensolum.com; Tracy Hillard <thillard@ensolum.com>; bbelill@ensolum.com
Subject: [EXTERNAL] XTO - Closure Criteria Variance - Remuda Basin Battery - Incident Numbers: NJMW1303140115 and NMAP1825437863

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

XTO - Closure Criteria Variance - Remuda Basin Battery - Incident Numbers: NJMW1303140115 and NMAP1825437863

XTO respectfully requests a Variance of the applied Closure Criteria to address deferred impacts related to two incidents that occurred on August 30, 2010, and August 21, 2018, at the Remuda Basin Battery (Incident Numbers: NJMW1303140115 and NMAP1825437863).

The Site is located in Unit F, Section 19, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.290595°, -103.92319°) on land associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (SLO). The Remuda Basin Battery (Site) has been plugged and abandoned, and reclamation work is planned following removal of the deferred soil on Site. Excavation of impacted soil relating to the two approved deferral requests began on June 30, 2025, and is anticipated to be completed by the end of July 2025. A Closure Request will be submitted within 30 days of final receipt of confirmation soil sample analytical data.

- Depth to groundwater at the Site is between 50 feet and 100 feet below ground surface (bgs) based on recent gauging of livestock watering well. The closest permitted groundwater well with recent depth to groundwater data is a United States Geological Survey (USGS) well 321742103552601, located approximately 0.3 miles north of the Site. The most recent recorded depth to groundwater was reported as 66.1 feet bgs on May 6, 1993. Due to the age of the depth to groundwater data, Ensolum conducted a field investigation of the well. On June 11, 2024, the well was gauged with an oil/water interface probe to determine the current depth to groundwater. The USGS well had a depth to groundwater of 66.45 feet bgs and a total depth of 100 feet bgs. The groundwater measurement form is attached for reference.

- As noted in the approved *Deferral Request Addendum* in relation to the 2018 release, a pedestrian karst survey was completed in 2020. A Bureau of Land Management (BLM) certified karst specialist conducted a pedestrian survey to determine the presence or absence of surface karst-related features within a 650 feet radius of the Site. No surface karst features were located within the pedestrian survey area. A copy of the report is attached to this email for reference.

- On July 9, 2025, a pedestrian survey was conducted of the seasonal dry wash located approximately 165 feet west of the Site per the New Mexico Oil and Gas Map. Satellite imagery indicates the seasonal dry wash has limited distinguishable features and transects a lease road, which warranted additional investigation. The pedestrian survey was conducted by Ensolum personnel to confirm the feature complies with the definition of a significant watercourse per Subsection P of 19.15.17.7 NMAC.

Ensolum was able to confirm the seasonal dry wash does not have an established bed and bank in the area north of the lease road or within 300 feet of the Site. Review of the pedestrian survey and satellite imagery appears an erosional feature did exist from the edge of the pad towards the southwest due to water control that has been corrected and is no longer present. The pad is undergoing abandonment, and any potential new erosional features will be addressed in that process. Photographic documentation is attached to the email for reference.

Due to the confirmation of no sensitive receptors located near the Site, XTO requests a Variance of the applied Closure Criteria to reflect groundwater between 51 feet and 100 feet bgs as shown in Table 1 of 19.15.29 NMAC. A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH will be applied to the top 4 feet, per 19.15.29.13.D (1) NMAC.

Please let me know if you have any questions.

R. Dale Woodall
Water Coordinator

ExxonMobil Upstream Company
3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-4374
Robert.D.Woodall@exxonmobil.com

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APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc.
Remuda Basin Battery
NJMW1303140115 and NMAP1825437863



Photograph: 1 Date: 7/1/2025
Description: Excavation activities (FS01-FS04)
View: East



Photograph: 2 Date: 7/8/2025
Description: Excavation activities (Vicinity of FS21)
View: Northwest



Photograph: 3 Date: 7/9/2025
Description: Excavation activities
View: East



Photograph: 4 Date: 7/11/2025
Description: Excavation activities (FS09-FS13)
View: Northwest

ENSOLUM

Photographic Log
XTO Energy, Inc.
Remuda Basin Battery
NJMW1303140115 and NMAP1825437863



Photograph: 5 Date: 7/15/2025
Description: Excavation activities (FS14-FS17)
View: Northeast



Photograph: 6 Date: 7/16/2025
Description: Excavation activities (FS14-FS33)
View: Southwest



Photograph: 7 Date: 7/22/2025
Description: Excavation activities (FS57-FS58)
View: Northeast



Photograph: 8 Date: 7/22/2025
Description: Excavation activities (FS39-FS48)
View: Southeast

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Photographic Log
XTO Energy, Inc.
Remuda Basin Battery
NJMW1303140115 and NMAP1825437863



Photograph: 9 Date: 7/23/2025
Description: Excavation activities
View: Southwest



Photograph: 10 Date: 7/23/2025
Description: Excavation activities (FS63, FS64)
View: East



Photograph: 11 Date: 7/24/2025
Description: Excavation activities
View: Northwest



Photograph: 12 Date: 8/13/2025
Description: Excavation activities (FS65)
View: Southwest

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

CARDINAL Laboratories

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

July 10, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/03/25 12:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/03/2025	Sampling Date:	07/01/2025
Reported:	07/10/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 01 2' (H254019-01)

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	07/07/2025	ND	2.10	105	2.00	0.725	
Toluene*	<0.050	0.050	07/07/2025	ND	2.13	107	2.00	1.20	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.34	106	6.00	1.97	
Total BTEX	<0.300	0.300	07/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2025	ND	217	108	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/07/2025	ND	204	102	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	07/07/2025	ND					

Surrogate: 1-Chlorooctane *103 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *100 %* *40.6-153*

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

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/03/2025	Sampling Date:	07/01/2025
Reported:	07/10/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 02 2' (H254019-02)

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	07/07/2025	ND	2.10	105	2.00	0.725	
Toluene*	<0.050	0.050	07/07/2025	ND	2.13	107	2.00	1.20	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.34	106	6.00	1.97	
Total BTEX	<0.300	0.300	07/07/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	07/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2025	ND	217	108	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/07/2025	ND	204	102	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	07/07/2025	ND					

Surrogate: 1-Chlorooctane *97.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *95.3 %* *40.6-153*

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

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/03/2025	Sampling Date:	07/01/2025
Reported:	07/10/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 03 2' (H254019-03)

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	07/07/2025	ND	2.10	105	2.00	0.725	
Toluene*	<0.050	0.050	07/07/2025	ND	2.13	107	2.00	1.20	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.34	106	6.00	1.97	
Total BTEX	<0.300	0.300	07/07/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	07/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2025	ND	217	108	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/07/2025	ND	204	102	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	07/07/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *98.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/03/2025	Sampling Date:	07/01/2025
Reported:	07/10/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 04 2' (H254019-04)

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	07/07/2025	ND	2.10	105	2.00	0.725	
Toluene*	<0.050	0.050	07/07/2025	ND	2.13	107	2.00	1.20	
Ethylbenzene*	<0.050	0.050	07/07/2025	ND	2.13	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	07/07/2025	ND	6.34	106	6.00	1.97	
Total BTEX	<0.300	0.300	07/07/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	07/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2025	ND	217	108	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/08/2025	ND	204	102	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	07/08/2025	ND					

Surrogate: 1-Chlorooctane *95.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.8 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Page 35 of 758

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 575 937 3906 Fax #:
Project #: 03C1558694 Project Owner: XTO
Project Name: Remuda Basin Battery
Project Location: 32.2907543, -103.9231556
Sampler Name: Joshua Boxley

BILL TO

P.O. #:
Company: XTO Energy Inc
Attn: ~~Colton Brown~~ JOB Dale Woodall
Address: 3104 E Green St
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chlorides	TPH	BTEX
H254019	FS01	2	C	1			X					X		7.1.25	0730	X	X	X
2	FS02	↑	↓	↑										↓	0745			
3	FS03	↓	↓	↓											0850			
4	FS04	2	C	1			X					X		7.1.25	0855	X	X	X

JOB

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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7.3.25	Received By: SRodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1240		All Results are emailed. Please provide Email address: THillard @ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS: Incident: NMAP1825437863, NJMW1503140115 GFCM: 48605000 - Spills
	Time:		Cost Center:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 0.1 Corrected Temp. °C 0.4
Sample Condition: Cool Yes Intact Yes / No
CHECKED BY: (Initials) SR

Turnaround Time: Standard ☒ Rush ☐ 5 day
Thermometer ID: #140 Correction Factor: +0.3
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 11, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: REMUDA BASIN BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/10/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/10/2025	Sampling Date:	07/09/2025
Reported:	07/11/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 05 6 (H254110-01)

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	07/10/2025	ND	1.92	95.8	2.00	0.805	
Toluene*	<0.050	0.050	07/10/2025	ND	2.03	101	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/10/2025	ND	2.07	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/10/2025	ND	6.21	104	6.00	0.365	
Total BTEX	<0.300	0.300	07/10/2025	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	**1040**	16.0	07/11/2025	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	07/10/2025	ND	232	116	200	1.58	
DRO >C10-C28*	<10.0	10.0	07/10/2025	ND	218	109	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	07/10/2025	ND					

Surrogate: 1-Chlorooctane *75.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/10/2025	Sampling Date:	07/09/2025
Reported:	07/11/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 06 6 (H254110-02)

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	07/10/2025	ND	1.92	95.8	2.00	0.805	
Toluene*	<0.050	0.050	07/10/2025	ND	2.03	101	2.00	1.00	
Ethylbenzene*	<0.050	0.050	07/10/2025	ND	2.07	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/10/2025	ND	6.21	104	6.00	0.365	
Total BTEX	<0.300	0.300	07/10/2025	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	**704**	16.0	07/11/2025	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	07/10/2025	ND	232	116	200	1.58	
DRO >C10-C28*	<10.0	10.0	07/10/2025	ND	218	109	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	07/10/2025	ND					

Surrogate: 1-Chlorooctane *81.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *74.5 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 - 1

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 601 N Marienfeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: (575) 937-3906 Fax #:
Project #: 03C1558694 Project Owner: XTO Energy
Project Name: Remuda Basin Battery - SPILLS
Project Location: 32.2909575, -103.9228991
Sampler Name: Trevor Wargo

BILL TO

P.O. #:
Company: XTO Energy, Inc
Attn: ~~Colton Brown~~ TPW Robert Woodall
Address: 3104 E Greene St
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015	BTEX 8021	Chloride 4500
H254110												✓						
1	FS05	6	C	1			✓					✓		07/09/25	14:56	✓	✓	✓
2	FS06	6	C	1			✓					✓		↓	14:59	✓	✓	✓

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Relinquished By: Trevor Wargo	Date: 7-10-25 Time: 1340	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: twargo@ensolum.com BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 0.1 Corrected Temp. °C 0.4	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)

REMARKS: Incident Number: nAP1825437863, NJMW1303140115
Cost Center: ~~Pending~~ TPA.2023.01013.EXP.01
GFCM: 48605000

Turnaround Time: 24h Standard ☐ Rush ☑ #140 +0.3c
Thermometer ID #113 Correction Factor -0.5°C
Bacteria (only) Sample Condition: Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 15, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: REMUDA BASIN BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/14/25 12:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/14/2025	Sampling Date:	07/10/2025
Reported:	07/15/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 07 2 (H254160-01)

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	07/14/2025	ND	1.76	88.1	2.00	7.29	
Toluene*	<0.050	0.050	07/14/2025	ND	1.87	93.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	07/14/2025	ND	1.98	99.0	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/14/2025	ND	6.15	102	6.00	1.28	
Total BTEX	<0.300	0.300	07/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	07/15/2025	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	07/14/2025	ND	213	107	200	3.72	
DRO >C10-C28*	**1500**	10.0	07/14/2025	ND	196	98.0	200	0.419	
EXT DRO >C28-C36	**494**	10.0	07/14/2025	ND					

Surrogate: 1-Chlorooctane *97.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *131 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/14/2025	Sampling Date:	07/10/2025
Reported:	07/15/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 08 2 (H254160-02)

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	07/14/2025	ND	1.76	88.1	2.00	7.29	
Toluene*	<0.050	0.050	07/14/2025	ND	1.87	93.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	07/14/2025	ND	1.98	99.0	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/14/2025	ND	6.15	102	6.00	1.28	
Total BTEX	<0.300	0.300	07/14/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	07/15/2025	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	07/14/2025	ND	213	107	200	3.72	
DRO >C10-C28*	**19.3**	10.0	07/14/2025	ND	196	98.0	200	0.419	
EXT DRO >C28-C36	**21.3**	10.0	07/14/2025	ND					

Surrogate: 1-Chlorooctane *95.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *92.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 601 N Marienfeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: (575) 937-3906 Fax #:
Project #: 03C1558694 Project Owner: XTO Energy
Project Name: Remuda Basin Battery - SPILLS
Project Location: 32.2909575, -103.9228491
Sampler Name: Trevor Wargo

BILL TO

P.O. #:
Company: XTO Energy, Inc
Attn: ~~Colton Brown~~ TBW Robert Woodall
Address: 3104 E Greene St
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
H254160 1	FS07	2	C	1			✓					✓		07/10/25	14:05	✓	✓	✓
2	FS08	2	C	1			✓					✓		↓	14:08	✓	✓	✓

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Relinquished By: Trevor Wargo Date: 7.14.25 Time: 1229 Received By: Shodrigues
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 3.5 Corrected Temp. °C 3.8
Sample Condition: Cool Yes / No, Intact Yes / No
CHECKED BY: (Initials) SK

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address: ~~trevor.wargo~~ twargo@ensolum.com
BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com
REMARKS: Incident Number: nAPP1825437863, NJAW1303140115
Cost Center: PA.2023.01013.EXP.01
GFCM: 48605000

Turnaround Time: Standard ☐ Rush ☒ (24h)
Thermometer ID #113 Correction Factor -0.5°C #140 -0.3
Bacteria (only) Sample Condition: Cool Yes / No, Intact Yes / No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 16, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/14/25 12:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 01 0-2 (H254161-01)

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	07/14/2025	ND	1.76	88.1	2.00	7.29	
Toluene*	<0.050	0.050	07/14/2025	ND	1.87	93.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	07/14/2025	ND	1.98	99.0	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/14/2025	ND	6.15	102	6.00	1.28	
Total BTEX	<0.300	0.300	07/14/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	<10.0	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *98.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 02 0-4 (H254161-02)

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	07/14/2025	ND	1.76	88.1	2.00	7.29	
Toluene*	<0.050	0.050	07/14/2025	ND	1.87	93.7	2.00	3.92	
Ethylbenzene*	<0.050	0.050	07/14/2025	ND	1.98	99.0	2.00	1.07	
Total Xylenes*	<0.150	0.150	07/14/2025	ND	6.15	102	6.00	1.28	
Total BTEX	<0.300	0.300	07/14/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	<10.0	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *99.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 02 4-6 (H254161-03)

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	07/15/2025	ND	1.79	89.5	2.00	4.85	
Toluene*	<0.050	0.050	07/15/2025	ND	2.07	104	2.00	3.94	
Ethylbenzene*	<0.050	0.050	07/15/2025	ND	2.09	105	2.00	1.91	
Total Xylenes*	<0.150	0.150	07/15/2025	ND	6.53	109	6.00	3.13	
Total BTEX	<0.300	0.300	07/15/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	<10.0	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *100 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *97.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 09 6 (H254161-04)

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	07/15/2025	ND	1.79	89.5	2.00	4.85	
Toluene*	<0.050	0.050	07/15/2025	ND	2.07	104	2.00	3.94	
Ethylbenzene*	<0.050	0.050	07/15/2025	ND	2.09	105	2.00	1.91	
Total Xylenes*	<0.150	0.150	07/15/2025	ND	6.53	109	6.00	3.13	
Total BTEX	<0.300	0.300	07/15/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	<10.0	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *93.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 10 6 (H254161-05)

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	07/15/2025	ND	1.79	89.5	2.00	4.85	
Toluene*	<0.050	0.050	07/15/2025	ND	2.07	104	2.00	3.94	
Ethylbenzene*	<0.050	0.050	07/15/2025	ND	2.09	105	2.00	1.91	
Total Xylenes*	<0.150	0.150	07/15/2025	ND	6.53	109	6.00	3.13	
Total BTEX	<0.300	0.300	07/15/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	**18.8**	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *105 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *102 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 11 6 (H254161-06)

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	07/15/2025	ND	1.79	89.5	2.00	4.85	
Toluene*	<0.050	0.050	07/15/2025	ND	2.07	104	2.00	3.94	
Ethylbenzene*	<0.050	0.050	07/15/2025	ND	2.09	105	2.00	1.91	
Total Xylenes*	<0.150	0.150	07/15/2025	ND	6.53	109	6.00	3.13	
Total BTEX	<0.300	0.300	07/15/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	<10.0	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *89.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.4 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 12 6 (H254161-07)

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	07/15/2025	ND	1.79	89.5	2.00	4.85	
Toluene*	<0.050	0.050	07/15/2025	ND	2.07	104	2.00	3.94	
Ethylbenzene*	<0.050	0.050	07/15/2025	ND	2.09	105	2.00	1.91	
Total Xylenes*	<0.150	0.150	07/15/2025	ND	6.53	109	6.00	3.13	
Total BTEX	<0.300	0.300	07/15/2025	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	**48.0**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	<10.0	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *98.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *95.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/14/2025	Sampling Date:	07/11/2025
Reported:	07/16/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 13 6 (H254161-08)

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	07/15/2025	ND	1.79	89.5	2.00	4.85	
Toluene*	<0.050	0.050	07/15/2025	ND	2.07	104	2.00	3.94	
Ethylbenzene*	<0.050	0.050	07/15/2025	ND	2.09	105	2.00	1.91	
Total Xylenes*	<0.150	0.150	07/15/2025	ND	6.53	109	6.00	3.13	
Total BTEX	<0.300	0.300	07/15/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/15/2025	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	07/15/2025	ND	210	105	200	1.63	
DRO >C10-C28*	<10.0	10.0	07/15/2025	ND	190	94.9	200	0.0332	
EXT DRO >C28-C36	<10.0	10.0	07/15/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *101 %* *40.6-153*

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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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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	
Project Manager: Tracy Hillard	
Address: 3102 National Parks Hwy	
City: Carlsbad State: NM Zip	
Phone #: 575-937-3906 Fax #:	
Project #: 03C1558694 Project Owner:	
Project Name: Remuda Basin - Spills	
Project Location: 32.2909575, -103.9228491	
Sampler Name: Mario Sarkis	

BILL TO

P.O. #:	
Company:	XTO Energy
Attn:	Buck Downing
Address:	3104 E. Green St.
City:	Carlsbad
State: NM Zip:	88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	Chlorides
1 H685411	SW01	0-2	C	1			x					x		7/11/2025	9:14	x	x	x
2	SW02	0-4	C	1			x					x		7/11/2025	9:25	x	x	x
3	SW02	4-6	C	1			x					x		7/11/2025	10:17	x	x	x
4	FS09	6	C	1			x					x		7/11/2025	11:01	x	x	x
5	FS10	6	C	1			x					x		7/11/2025	11:02	x	x	x
6	FS11	6	C	1			x					x		7/11/2025	13:02	x	x	x
7	FS12	6	C	1			x					x		7/11/2025	13:28	x	x	x
8	FS13	6	C	1			x					x		7/11/2025	13:30	x	x	x

MRS

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Relinquished By:	Date: 7.14.25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1229		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	msarkis@ensolum.com / thillard@ensolum.com / tmorrisey@ensolum.com
	Time:		REMARKS: Incidents: NMAP182543863 & NJMW1303140115 GFCM: 48605000 AFE: PA.2023.01013.EXP.01 PA.2023.01014.EXP.01

Delivered By: (Circle One)	Observed Temp. °C 3.5	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: 48-hr Standard ☐ Rush ☑
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.8			Thermometer ID #140 Correction Factor +0.3°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.6 02/12/25

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 21, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/17/25 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 14 2 (H254285-01)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *82.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.4 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 15 2 (H254285-02)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *86.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/15/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 17 2 (H254285-03)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *76.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 16 2 (H254285-04)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *90.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 18 2 (H254285-05)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *78.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.4 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: SW 03 0-4 (H254285-06)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *76.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.3 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: SW 04 0-4 (H254285-07)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *74.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *74.6 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: SW 05 0-4 (H254285-08)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *86.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *88.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: SW 06 0-4 (H254285-09)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *84.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: SW 07 4-6 (H254285-10)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *86.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.8 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 20 6 (H254285-11)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *66.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *65.4 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 21 6 (H254285-12)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *66.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 22 6 (H254285-13)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	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	07/17/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *84.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.4 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 23 6 (H254285-14)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	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	07/18/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *80.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.1 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 24 4 (H254285-15)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	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	07/18/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *87.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 07 4 (H254285-16)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	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	07/18/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *88.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 08 4 (H254285-17)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/18/2025	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	07/18/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *81.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.4 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: SW 08 4-7 (H254285-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	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	07/18/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *87.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 25 4 (H254285-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/18/2025	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	07/18/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *87.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 26 4 (H254285-20)

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	07/18/2025	ND	1.63	81.3	2.00	8.55	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	8.31	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.66	83.2	2.00	8.08	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	4.89	81.5	6.00	7.98	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/18/2025	ND	464	116	400	3.51	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	07/18/2025	ND	189	94.7	200	2.97	
DRO >C10-C28*	<10.0	10.0	07/18/2025	ND	199	99.7	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *86.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 27 4 (H254285-21)

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	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	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	**64.0**	16.0	07/18/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	200	99.9	200	0.131	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	191	95.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *71.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 28 4 (H254285-22)

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	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	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	**48.0**	16.0	07/18/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	200	99.9	200	0.131	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	191	95.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *80.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 29 4 (H254285-23)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	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	**64.0**	16.0	07/18/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	200	99.9	200	0.131	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	191	95.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *75.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 30 4 (H254285-24)

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	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	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	**32.0**	16.0	07/18/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	200	99.9	200	0.131	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	191	95.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *67.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 31 4 (H254285-25)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	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	**80.0**	16.0	07/18/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	200	99.9	200	0.131	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	191	95.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *74.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 32 4 (H254285-26)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	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	**32.0**	16.0	07/18/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	200	99.9	200	0.131	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	191	95.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *80.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 33 4 (H254285-27)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2025	ND	1.70	85.2	2.00	8.72	
Toluene*	<0.050	0.050	07/18/2025	ND	1.68	84.2	2.00	7.99	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.68	84.0	2.00	9.84	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.13	85.6	6.00	9.23	
Total BTEX	<0.300	0.300	07/18/2025	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	**32.0**	16.0	07/18/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	200	99.9	200	0.131	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	191	95.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane *79.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.0 %* *40.6-153*

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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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

Company Name:	Ensolum, LLC
Project Manager:	Tracy Hillard
Address:	3122 National Parks Hwy
City:	Carlsbad **State:** NM **Zip:** 88220
Phone #:	337 257-8307 **Fax #:**
Project #:	03C1558694 **Project Owner:** XTO
Project Name:	Remuda Basin Battery
Project Location:	
Sampler Name:	Connor Whitman, Jacob Harrison

BILL TO

P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM **Zip:** 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H254285																		
1	FS14	2	C	1			✓					✓		7-15-25	1145	✓	✓	✓
2	FS15	↓	↓	↓										↓	1148			
3	FS17													↓	1155			
4	FS16													7-16-25	8:35			
5	FS18	↓												↓	915			
6	SW03	0-4													720			
7	SW04	↓													930			
8	SW05														935			
9	SW06	↓													940			
10	SW07	0-6												↓	1145	↓	↓	↓

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Relinquished By:	**Date:** 7.18.25 **Time:** 1442	**Received By:**
Relinquished By:	**Date:** **Time:**	**Received By:**

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:
THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com

REMARKS: Cost Center:
GFCM: 48605000
AFE: PA.2023.01013.EXP.01, PA.2023.01014.EXP.01
Incident ID: NMAP1825437863 & NJMW1303140115

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 27.1 Corrected Temp. °C 30.1	**Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	**CHECKED BY: (Initials)** AT

Turnaround Time: Standard ☐ Rush ☒ (+140 cut 032 48hr)
Thermometer ID #113
Correction Factor -0.5°C

Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

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

Company Name:	Ensolum, LLC
Project Manager:	Tracy Hillard
Address:	3122 National Parks Hwy
City:	Carlsbad **State:** NM **Zip:** 88220
Phone #:	337 257-8307 **Fax #:**
Project #:	03C1558694 **Project Owner:** XTO
Project Name:	Remuda Basin Battery
Project Location:	
Sampler Name:	Connor Whitman, Jacob Harrison

BILL TO	
P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM **Zip:** 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H854285																		
11	FS20	6	C	1			✓					✓		7-16-25	1230	✓	✓	✓
12	FS21	6													1235			
13	FS22	6													1240			
14	FS23	6													1245			
15	FS24	4													1250			
16	FS07	4													1235			
17	FS08	4													1300			
18	SW08	4-7													1305			
19	FS25	4													1310			
20	FS26	4	↓	↓			↓					↓		↓	1315	↓	↓	↓

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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	**Date:** 7.17.25 **Time:** 1442	**Received By:**
Relinquished By:	**Date:** **Time:**	**Received By:**

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

Observed Temp. °C 2.7 Corrected Temp. °C 3.0

Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No

CHECKED BY: (Initials) AP

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:
THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com

REMARKS: Cost Center: GFCM: 48605000 AFE: PA.2023.01013.EXP.01, PA.2023.01014.EXP.01
Incident ID: NMAP1825437863 & NJMW1303140115

Turnaround Time: Standard ☐ Rush ☑ +140 48hr
Thermometer ID #113 Correction Factor -0.5°C +10

Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name:	Ensolum, LLC
Project Manager:	Tracy Hillard
Address:	3122 National Parks Hwy
City:	Carlsbad **State:** NM **Zip:** 88220
Phone #:	337 257-8307 **Fax #:**
Project #:	03C1558694 **Project Owner:** XTO
Project Name:	Remuda Basin Battery
Project Location:	
Sampler Name:	Connor Whitman, Jacob Harrison

BILL TO

P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM **Zip:** 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H254285																		
21	FS27	4	C	1			X					X		7-11-25	1340	X	X	X
22	FS28														1345			
23	FS29														1350			
24	FS30														1355			
25	FS31														1400			
26	FS32														1405			
27	FS33														1410			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	**Date:** 7.11.25	**Received By:**	
	Time: 1442		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:
THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com

REMARKS: Cost Center: Incident ID: NMAP1825437863 & NJMW1303140115
GFCM: 48605000
AFE: PA.2023.01013.EXP.01, PA.2023.01014.EXP.01

Delivered By: (Circle One)	Observed Temp. °C 2.7	**Sample Condition** Cool: ☑ Yes ☐ No	Intact: ☐ Yes ☐ No	**CHECKED BY: (Initials)** AD
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.0			

Turnaround Time: Standard ☐ Rush ☑ (#1 LW)
Thermometer ID #113
Correction Factor -0.5°C +0.3 Blue

Bacteria (only) Sample Condition
Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 21, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/17/25 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/17/2025	Sampling Date:	07/16/2025
Reported:	07/21/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 19 7 (H254292-01)

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	07/18/2025	ND	1.88	93.9	2.00	0.530	
Toluene*	<0.050	0.050	07/18/2025	ND	1.90	95.2	2.00	0.0319	
Ethylbenzene*	<0.050	0.050	07/18/2025	ND	1.92	96.2	2.00	0.707	
Total Xylenes*	<0.150	0.150	07/18/2025	ND	5.77	96.1	6.00	1.27	
Total BTEX	<0.300	0.300	07/18/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	07/18/2025	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	07/18/2025	ND	202	101	200	3.50	
DRO >C10-C28*	**668**	10.0	07/18/2025	ND	190	94.8	200	2.11	
EXT DRO >C28-C36	**106**	10.0	07/18/2025	ND					

Surrogate: 1-Chlorooctane *73.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.0 %* *40.6-153*

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

CARDINAL Laboratories

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name:	Ensolum, LLC
Project Manager:	Tracy Hillard
Address:	3122 National Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	337 257-8307 Fax #:
Project #:	03C1558694 Project Owner: XTO
Project Name:	Remuda Basin Battery
Project Location:	
Sampler Name:	Connor Whitman, Jacob Harrison

BILL TO

P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H254292																		
1	FS19	7	C	1			✓					✓		7-16-25	9:00	✓	✓	✓

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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7.18.25	Received By:
	Time: 1442	
Relinquished By:	Date:	Received By:
	Time:	

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

THillard@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com

REMARKS: Cost Center: Incident ID: NMAP1825437863 & NJMW1303140115

GFCM: 48605000

AFE: PA.2023.01013.EXP.01, PA.2023.01014.EXP.01

Delivered By: (Circle One)	Observed Temp. °C 2.7	Sample Condition Cool: ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: ☐ Standard ☑ Rush #1420
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.0	Intact: ☐ Yes ☐ No		Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 25, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/24/25 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 39 4 (H254481-01)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	07/25/2025	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *103 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 40 4 (H254481-02)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/25/2025	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *92.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.8 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 41 4 (H254481-03)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/25/2025	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *99.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *98.5 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 42 4 (H254481-04)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/25/2025	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *99.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *100 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 43 4 (H254481-05)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/25/2025	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *105 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *104 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 44 4 (H254481-06)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/25/2025	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *102 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 45 4 (H254481-07)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/25/2025	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *94.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.1 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 46 4 (H254481-08)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	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	**48.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *98.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.8 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 47 4 (H254481-09)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *89.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.2 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 48 4 (H254481-10)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	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	**80.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *97.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *98.6 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 49 4 (H254481-11)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *88.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.7 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 50 4 (H254481-12)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *80.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.4 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 51 4 (H254481-13)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *107 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *107 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 52 6 (H254481-14)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	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	**80.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *88.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.5 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 53 4 (H254481-15)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	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	**48.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *104 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 54 5 (H254481-16)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	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	**48.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	**81.6**	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	**12.5**	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *97.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.1 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 55 5 (H254481-17)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *89.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.9 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 56 5 (H254481-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	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	**144**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *94.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.1 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 57 4 (H254481-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/25/2025	ND	480	120	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	07/25/2025	ND	214	107	200	1.51	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane *95.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.3 %* *40.6-153*

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 58 4 (H254481-20)

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	07/24/2025	ND	1.86	93.1	2.00	6.62	
Toluene*	<0.050	0.050	07/24/2025	ND	1.96	98.0	2.00	4.13	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.01	101	2.00	2.51	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.27	105	6.00	1.82	
Total BTEX	<0.300	0.300	07/24/2025	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	**144**	16.0	07/25/2025	ND	480	120	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	07/25/2025	ND	214	107	200	1.51	
DRO >C10-C28*	**13.4**	10.0	07/25/2025	ND	210	105	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane *106 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *105 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 59 4 (H254481-21)

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	07/24/2025	ND	1.96	97.8	2.00	6.90	
Toluene*	<0.050	0.050	07/24/2025	ND	1.99	99.7	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.08	104	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.64	111	6.00	5.65	
Total BTEX	<0.300	0.300	07/24/2025	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	**48.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	198	98.8	200	1.47	
DRO >C10-C28*	**64.0**	10.0	07/24/2025	ND	187	93.7	200	0.470	
EXT DRO >C28-C36	**13.5**	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *76.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *80.3 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	07/24/2025	Sampling Date:	07/22/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2907543-103.9231556		

Sample ID: FS 60 4 (H254481-22)

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	07/24/2025	ND	1.96	97.8	2.00	6.90	
Toluene*	<0.050	0.050	07/24/2025	ND	1.99	99.7	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	2.08	104	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	6.64	111	6.00	5.65	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/25/2025	ND	480	120	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	07/24/2025	ND	198	98.8	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	187	93.7	200	0.470	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *96.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.6 %* *40.6-153*

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Mike Snyder For 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 575.937.3906 Fax #:
Project #: 03C1558694 Project Owner: XTO
Project Name: Remuda Basin Battery
Project Location: (32.2909575, -103.9228491)
Sampler Name: Chris Wright

BILL TO
P.O. #:
Company: XTO Energy Inc
Attn: Colton Brown
Address: 3104 E Green St
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	TPH	BTEX
H254481																		
1	FS39	4	C	1			✓					✓		7/22/25	1012	✓	✓	✓
2	FS40	4	C	1			✓					✓		7/22/25	1014	✓	✓	✓
3	FS41	4	C	1			✓					✓		7/22/25	1017	✓	✓	✓
4	FS42	4	C	1			✓					✓		7/22/25	1020	✓	✓	✓
5	FS43	4	C	1			✓					✓		7/22/25	1026	✓	✓	✓
6	FS44	4	C	1			✓					✓		7/22/25	1030	✓	✓	✓
7	FS45	4	C	1			✓					✓		7/22/25	1037	✓	✓	✓
8	FS46	4	C	1			✓					✓		7/22/25	1041	✓	✓	✓
9	FS47	4	C	1			✓					✓		7/22/25	1046	✓	✓	✓
10	FS48	4	C	1			✓					✓		7/22/25	1101	✓	✓	✓

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Relinquished By: Chris Wright Date: 7.24.25 Time: 1510 Received By: Adams
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 17 Corrected Temp. °C 20
Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
CHECKED BY: (Initials) AD

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
thillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com

REMARKS:
Incident: NMAP1825437863; NJMU1303140115 GFCM: 48605000
Cost Center: AFE: PA.2023.01013.EXP.01; PA.2023.01014.EXP.01

Turnaround Time: Standard ☐ Rush ☒ 24 Hr
Thermometer ID: #142
Correction Factor: +0.3
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 3122 National Parks Hwy	Company: XTO Energy Inc
City: Carlsbad State: NM Zip: 88220	Attn: Colton Brown
Phone #: 575.937.3906 Fax #:	Address: 3104 E Green St
Project #: 03C1558694 Project Owner: XTO	City: Carlsbad
Project Name: Remuda Basin Battery	State: NM Zip: 88220
Project Location: (32.2909575, -103.9228491)	Phone #:
Sampler Name: Chris Wright	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	TPH	BTEX
H254481																		
11	FS49	4	C	1			✓					✓		7/22/25	1102	✓	✓	✓
12	FS50	4	C	1			✓					✓		7/22/25	1107	✓	✓	✓
13	FS51	4	C	1			✓					✓		7/22/25	1115	✓	✓	✓
14	FS52	6	C	1			✓					✓		7/22/25	1122	✓	✓	✓
15	FS53	4	C	1			✓					✓		7/22/25	1128	✓	✓	✓
16	FS54	5	C	1			✓					✓		7/22/25	1208	✓	✓	✓
17	FS55	5	C	1			✓					✓		7/22/25	1214	✓	✓	✓
18	FS56	5	C	1			✓					✓		7/22/25	1219	✓	✓	✓
19	FS57	4	C	1			✓					✓		7/22/25	1223	✓	✓	✓
20	FS58	4	C	1			✓					✓		7/22/25	1229	✓	✓	✓

ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Chris Wright	Date: 7.24.25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1510		All Results are emailed. Please provide Email address: thillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		Incident: NMAP1825437863; NJMU1303140115 GFCM: 48605000
Delivered By: (Circle One)	Observed Temp. °C +7	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	Cost Center: AFE: PA.2023.01013.EXP.01; PA.2023.01014.EXP.01
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.0	CHECKED BY: (Initials) KD	Turnaround Time: 24 Hr Standard ☐ Rush ☒
			Thermometer ID: #140 Correction Factor: +0.3
			Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 3122 National Parks Hwy	Company: XTO Energy Inc
City: Carlsbad State: NM Zip: 88220	Attn: Colton Brown
Phone #: 575.937.3906 Fax #:	Address: 3104 E Green St
Project #: 03C1558694 Project Owner: XTO	City: Carlsbad
Project Name: Remuda Basin Battery	State: NM Zip: 88220
Project Location: (32.2909575, -103.9228491)	Phone #:
Sampler Name: Chris Wright	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides	TPH	BTEX
H25 44481																		
21	FS59	4	C	1			✓					✓		7/22/25	1231	✓	✓	✓
22	FS60	4	C	1			✓					✓		7/22/25	1232	✓	✓	✓

CFW

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Relinquished By: Chris Wright	Date: 7.24.25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1510		All Results are emailed. Please provide Email address: thillard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		Incident: NMAP1825437863; NJMU1303140115 GFCM: 48605000
Delivered By: (Circle One)	Observed Temp. °C 17	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	Cost Center: AFE: PA.2023.01013.EXP.01; PA.2023.01014.EXP.01
Sampler - UPS - Bus - Other:	Corrected Temp. °C 20	CHECKED BY: (Initials) AP	Turnaround Time: 24 Hr Standard ☐ Rush ☒
			Thermometer ID: #140 Correction Factor: .03
			Bacteria (only) Sample Condition: Cool ☐ Yes ☐ Nc; Intact ☐ Yes ☐ No
			Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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CARDINAL Laboratories

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

July 25, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: REMUDA BASIN BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/24/25 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/24/2025	Sampling Date:	07/23/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 61 3 (H254483-01)

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	07/24/2025	ND	1.88	93.8	2.00	5.23	
Toluene*	<0.050	0.050	07/24/2025	ND	1.92	96.2	2.00	5.88	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	1.94	97.1	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	5.82	97.0	6.00	5.35	
Total BTEX	<0.300	0.300	07/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	07/25/2025	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	07/24/2025	ND	199	99.3	200	1.03	
DRO >C10-C28*	**272**	10.0	07/24/2025	ND	189	94.4	200	3.26	
EXT DRO >C28-C36	**107**	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *77.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.3 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/24/2025	Sampling Date:	07/23/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 62 4 (H254483-02)

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	07/24/2025	ND	1.88	93.8	2.00	5.23	
Toluene*	<0.050	0.050	07/24/2025	ND	1.92	96.2	2.00	5.88	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	1.94	97.1	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	5.82	97.0	6.00	5.35	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/25/2025	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	07/24/2025	ND	199	99.3	200	1.03	
DRO >C10-C28*	**218**	10.0	07/24/2025	ND	189	94.4	200	3.26	
EXT DRO >C28-C36	**77.2**	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *93.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *95.9 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/24/2025	Sampling Date:	07/23/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 63 2 (H254483-03)

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	07/24/2025	ND	1.88	93.8	2.00	5.23	
Toluene*	<0.050	0.050	07/24/2025	ND	1.92	96.2	2.00	5.88	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	1.94	97.1	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	5.82	97.0	6.00	5.35	
Total BTEX	<0.300	0.300	07/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**416**	16.0	07/25/2025	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	07/24/2025	ND	199	99.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	189	94.4	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *81.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *82.4 %* *40.6-153*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/24/2025	Sampling Date:	07/23/2025
Reported:	07/25/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 64 2 (H254483-04)

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	07/24/2025	ND	1.88	93.8	2.00	5.23	
Toluene*	<0.050	0.050	07/24/2025	ND	1.92	96.2	2.00	5.88	
Ethylbenzene*	<0.050	0.050	07/24/2025	ND	1.94	97.1	2.00	6.01	
Total Xylenes*	<0.150	0.150	07/24/2025	ND	5.82	97.0	6.00	5.35	
Total BTEX	<0.300	0.300	07/24/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	07/25/2025	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	07/24/2025	ND	199	99.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	07/24/2025	ND	189	94.4	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/24/2025	ND					

Surrogate: 1-Chlorooctane *98.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.7 %* *40.6-153*

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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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 601 N Marienfeld Street, Suite 400	Company: XTO Energy, Inc
City: Midland State: TX Zip: 79701	Attn: Colton Brown
Phone #: (575) 937-3906 Fax #:	Address: 3104 E Greene St
Project #: 03C1558694 Project Owner: XTO Energy	City: Carlsbad
Project Name: Remuda Basin Battery - SPILLS	State: NM Zip: 88220
Project Location: 32.2907500 TOW -103.9231667	Phone #:
Sampler Name: Trevor Wargo	Fax #:

FOR LAB USE ONLY					MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST												
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500											
H257483																												
1	FS 61	3	C	1			✓					✓		07/23/25	14:09	✓	✓	✓										
2	FS 62	4													14:12													
3	FS 63	2													14:38													
4	FS 64	2													14:41													

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Relinquished By: Trevor Wargo	Date: 7.24.25 Time: 1510	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com
			REMARKS: Incident Number: nAP 1825437863 Cost Center: 486050oo GFCM: 48605000

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 1.7 Corrected Temp. °C 2.0	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) AR	Turnaround Time: Standard ☐ Rush ☑ 24h Thermometer ID #113 #140 Correction Factor -0.5°C +0.3	Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 28, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: REMUDA BASIN BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/25/25 11:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 09 0-2' (H254532-01)

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	07/25/2025	ND	1.89	94.4	2.00	3.21	
Toluene*	<0.050	0.050	07/25/2025	ND	1.91	95.3	2.00	1.93	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.95	97.7	2.00	0.876	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.93	98.8	6.00	0.851	
Total BTEX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/28/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane *82.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 10 0-2' (H254532-02)

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	07/25/2025	ND	1.89	94.4	2.00	3.21	
Toluene*	<0.050	0.050	07/25/2025	ND	1.91	95.3	2.00	1.93	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.95	97.7	2.00	0.876	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.93	98.8	6.00	0.851	
Total BTEX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/28/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane *88.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 11 0-2' (H254532-03)

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	07/25/2025	ND	1.89	94.4	2.00	3.21	
Toluene*	<0.050	0.050	07/25/2025	ND	1.91	95.3	2.00	1.93	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.95	97.7	2.00	0.876	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.93	98.8	6.00	0.851	
Total BTEX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/28/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	<10.0	10.0	07/25/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	07/25/2025	ND					

Surrogate: 1-Chlorooctane *85.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 12 0-6' (H254532-04)

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	07/25/2025	ND	1.89	94.4	2.00	3.21	
Toluene*	<0.050	0.050	07/25/2025	ND	1.91	95.3	2.00	1.93	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.95	97.7	2.00	0.876	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.93	98.8	6.00	0.851	
Total BTEX	<0.300	0.300	07/25/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/28/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	**10.3**	10.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *87.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 13 0-4' (H254532-05)

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	07/25/2025	ND	1.89	94.5	2.00	0.205	
Toluene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	2.54	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.98	99.2	2.00	4.46	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.95	99.1	6.00	4.17	
Total BTEX	<0.300	0.300	07/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/28/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	**72.6**	10.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	**16.2**	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *85.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 14 0-6' (H254532-06)

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	07/25/2025	ND	1.89	94.5	2.00	0.205	
Toluene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	2.54	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.98	99.2	2.00	4.46	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.95	99.1	6.00	4.17	
Total BTEX	<0.300	0.300	07/25/2025	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	**96.0**	16.0	07/28/2025	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	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *83.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 15 0-5' (H254532-07)

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	07/25/2025	ND	1.89	94.5	2.00	0.205	
Toluene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	2.54	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.98	99.2	2.00	4.46	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.95	99.1	6.00	4.17	
Total BTEX	<0.300	0.300	07/25/2025	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	**64.0**	16.0	07/28/2025	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	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *86.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.8 %* *40.6-153*

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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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 601 N Marienfeld Street, Suite 400	Company: XTO Energy, Inc
City: Midland State: TX Zip: 79701	Attn: Colton Brown
Phone #: (575) 937-3906 Fax #:	Address: 3104 E Greene St
Project #: 03C1558694 Project Owner: XTO Energy	City: Carlsbad
Project Name: Remuda Basin Battery - SPILLS	State: NM Zip: 88220
Project Location: 32.2909575, -103.9228491	Phone #:
Sampler Name: Trevor Wargo	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
H254582																		
1	SW 10 TW09	0-2	C	1			✓					✓		07/24/25	9:33	✓	✓	✓
2	SW 11 TW10	0-2													9:36			
3	SW 12 TW11	0-2													9:41			
4	SW 13 TW12	0-6													11:02			
5	SW 14 TW13	0-4													11:06			
6	SW 15 TW14	0-6													11:05			
	SW 15	0-5	↓	↓			↓					↓		↓	11:09	↓	↓	↓

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Relinquished By: Trevor Wargo	Date: 7-25-25 Time: 1124	Received By:	
Relinquished By:	Date: 7.25.25 Time: 1124	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.5 Corrected Temp. °C 4.8	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) AP

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address: twargo@ensolum.com
BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com
REMARKS: Incident Number: nMAP1825437863, NJMW1303140115
Cost Center: PA.2023.01013.Exp.01
GFCM: 48605000

Turnaround Time: Standard ☐ Rush ☑ 24h AP
Thermometer ID #113 #140
Correction Factor -0.5°C +0.3

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

July 28, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: REMUDA BASIN BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/25/25 11:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 65 5' (H254533-01)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2025	ND	1.89	94.5	2.00	0.205	
Toluene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	2.54	GC-NC
Ethylbenzene*	**0.220**	0.050	07/25/2025	ND	1.98	99.2	2.00	4.46	GC-NC1
Total Xylenes*	**0.836**	0.150	07/25/2025	ND	5.95	99.1	6.00	4.17	GC-NC1
Total BTEX	**1.06**	0.300	07/25/2025	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	**96.0**	16.0	07/28/2025	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*	**75.5**	50.0	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	**1760**	50.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	**371**	50.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *96.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *114 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 66 6' (H254533-02)

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	07/25/2025	ND	1.89	94.5	2.00	0.205	
Toluene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	2.54	
Ethylbenzene*	**0.086**	0.050	07/25/2025	ND	1.98	99.2	2.00	4.46	GC-NC1
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.95	99.1	6.00	4.17	
Total BTEX	<0.300	0.300	07/25/2025	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	07/28/2025	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*	**25.8**	10.0	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	**2220**	10.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	**558**	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *94.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *120 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 67 5' (H254533-03)

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	07/25/2025	ND	1.89	94.5	2.00	0.205	
Toluene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	2.54	
Ethylbenzene*	<0.050	0.050	07/25/2025	ND	1.98	99.2	2.00	4.46	
Total Xylenes*	<0.150	0.150	07/25/2025	ND	5.95	99.1	6.00	4.17	
Total BTEX	<0.300	0.300	07/25/2025	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	**48.0**	16.0	07/28/2025	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	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	**21.2**	10.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *83.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC
TRACY HILLARD
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	07/25/2025	Sampling Date:	07/24/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: FS 68 6' (H254533-04)

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	07/25/2025	ND	1.89	94.5	2.00	0.205	
Toluene*	<0.050	0.050	07/25/2025	ND	1.97	98.5	2.00	2.54	GC-NC
Ethylbenzene*	**1.32**	0.050	07/25/2025	ND	1.98	99.2	2.00	4.46	GC-NC1
Total Xylenes*	**2.17**	0.150	07/25/2025	ND	5.95	99.1	6.00	4.17	GC-NC1
Total BTEX	**3.49**	0.300	07/25/2025	ND					GC-NC1

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	**80.0**	16.0	07/28/2025	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*	**288**	50.0	07/26/2025	ND	196	97.9	200	0.383	
DRO >C10-C28*	**4570**	50.0	07/26/2025	ND	187	93.7	200	2.66	
EXT DRO >C28-C36	**894**	50.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane *96.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *151 %* *40.6-153*

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 143 of 758

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 601 N Marienfeld Street, Suite 400	Company: XTO Energy, Inc
City: Midland State: TX Zip: 79701	Attn: Colton Brown
Phone #: (575) 937-3906 Fax #:	Address: 3104 E Greene St
Project #: 03C1558694 Project Owner: XTO Energy	City: Carlsbad
Project Name: Remuda Basin Battery - SPILLS	State: NM Zip: 88220
Project Location: 32.2909575, -103.9228491	Phone #:
Sampler Name: Trevor Wargo	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
H25L533																		
1	FS65	5	C	1			✓					✓		07/24/25	8:58	✓	✓	✓
2	FS66	6													9:02			
3	FS67	5													10:16			
4	FS68	6	↓	↓			↓					↓		↓	9:34	↓	↓	↓

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Relinquished By: Trevor Wargo	Date: 7.25.25 Time: 1134	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: twargo@ensolum.com BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com
			REMARKS: Incident Number: nMAP1825437863, NJMW1303140115 Cost Center: PA.2023.01013. Exp.01 GFCM: 48605000
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.5 Corrected Temp. °C 4.8	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) AP
			Turnaround Time: 24h Standard ☐ Rush ☑ Thermometer ID #113 Correction Factor -0.5°C +0.3
			Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

August 08, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/07/25 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 34 4 (H254852-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/08/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	206	103	200	2.37	
DRO >C10-C28*	**809**	10.0	08/08/2025	ND	199	99.3	200	2.89	
EXT DRO >C28-C36	**301**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *93.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *117 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 35 6 (H254852-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/08/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	206	103	200	2.37	
DRO >C10-C28*	**269**	10.0	08/08/2025	ND	199	99.3	200	2.89	
EXT DRO >C28-C36	**93.6**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *95.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *101 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 36 5 (H254852-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/08/2025	ND	464	116	400	3.51	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	206	103	200	2.37	
DRO >C10-C28*	**154**	10.0	08/08/2025	ND	199	99.3	200	2.89	
EXT DRO >C28-C36	**86.9**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *77.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 37 6 (H254852-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	08/08/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	206	103	200	2.37	
DRO >C10-C28*	**2110**	10.0	08/08/2025	ND	199	99.3	200	2.89	
EXT DRO >C28-C36	**711**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *92.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *146 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 38 5 (H254852-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	08/08/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	206	103	200	2.37	
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	199	99.3	200	2.89	
EXT DRO >C28-C36	**10.3**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *91.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 61 4 (H254852-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/08/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	206	103	200	2.37	
DRO >C10-C28*	**54.0**	10.0	08/08/2025	ND	199	99.3	200	2.89	
EXT DRO >C28-C36	**28.9**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *94.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *94.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 65 5.5 (H254852-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/08/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	206	103	200	2.37	
DRO >C10-C28*	**1370**	10.0	08/08/2025	ND	199	99.3	200	2.89	
EXT DRO >C28-C36	**479**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *100 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *133 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 66 6.5 (H254852-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/08/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	196	97.8	200	0.144	
DRO >C10-C28*	**447**	10.0	08/08/2025	ND	215	108	200	4.83	
EXT DRO >C28-C36	**92.2**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *85.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *92.4 %* *40.6-153*

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CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/07/2025	Sampling Date:	08/06/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575-103.9228491		

Sample ID: FS 68 6.5 (H254852-09)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.76	87.9	2.00	1.46	
Toluene*	<0.050	0.050	08/07/2025	ND	1.83	91.4	2.00	3.59	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.84	91.8	2.00	4.36	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	5.42	90.3	6.00	4.67	
Total BTEX	<0.300	0.300	08/07/2025	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: KH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/08/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	196	97.8	200	0.144	
DRO >C10-C28*	**1990**	10.0	08/08/2025	ND	215	108	200	4.83	
EXT DRO >C28-C36	**451**	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane *86.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *123 %* *40.6-153*

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	Ensolum, LLC
Project Manager:	Tracy Hillard
Address:	3122 National Parks Hwy
City:	Carlsbad State: NM Zip 88220
Phone #:	970-210-9803 Fax #:
Project #:	03C1558694 Project Owner: XTO
Project Name:	Remuda Basin Battery
Project Location:	32.2909575, -103.9228491
Sampler Name:	Jacob Harrison

BILL TO

P.O. #:	
Company:	XTO Energy
Attn:	Robert Woodall
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH (8015)	BTEX (8021B)	Chloride (4500)
H254852-1	FS34	4	C	1			x					x		8/6/2025	11:35	x	x	x
2	FS35	6	C	1			x					x		8/6/2025	9:44	x	x	x
3	FS36	5	C	1			x					x		8/6/2025	9:48	x	x	x
4	FS37	6	C	1			x					x		8/6/2025	11:40	x	x	x
5	FS38	5	C	1			x					x		8/6/2025	9:50	x	x	x
6	FS61	4	C	1			x					x		8/6/2025	10:28	x	x	x
7	FS65	5.5	C	1			x					x		8/6/2025	10:15	x	x	x
8	FS66	6.5	C	1			x					x		8/6/2025	10:17	x	x	x
9	FS68	6.5	C	1			x					x		8/6/2025	11:38	x	x	x

JWH

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Relinquished By:	Jacob Harrison	Date:	8.7.25
		Time:	1430
Relinquished By:		Date:	
		Time:	
Received By:	Tamara Oldaker		
Received By:			

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address: thillard@ensolum.com / tmorrissey@ensolum.com / kthomason@ensolum.com / jharrison@ensolum.com

REMARKS: NMAP1825437863 & NJMW1303140115 / GFCM: 48605000 / AFE: PA.2023.01013.EXP.01

Turnaround Time: Standard ☐ Rush ☑ 24-hr

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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

FORM-006 R 3.6 02/12/25

Observed Temp. °C -2.4 Corrected Temp. °C -2.1

Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TO

Thermometer ID #140 Correction Factor +0.3°C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

August 18, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: REMUDA BASIN BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 08/14/25 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

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

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

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

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN BATTERY - SPILLS Project Number: 03C1558694 Project Manager: TRACY HILLARD Fax To:	Reported: 18-Aug-25 11:49

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 37 7-10'	H255031-01	Soil	13-Aug-25 14:25	14-Aug-25 13:50
FS 65 6-7.5'	H255031-02	Soil	13-Aug-25 16:00	14-Aug-25 13:50
FS 68 6-10.5'	H255031-03	Soil	13-Aug-25 15:30	14-Aug-25 13:50

08/18/25 - Client changed the depths on all samples (see COC). This is the revised report and will replace the one sent on 08/15/25.

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN BATTERY - SPILLS Project Number: 03C1558694 Project Manager: TRACY HILLARD Fax To:	Reported: 18-Aug-25 11:49

FS 37 7-10'

H255031-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5081514	KH	15-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*100 %*	*71.5-134*		*5081402*	JH	*14-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
DRO >C10-C28*	**368**		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
EXT DRO >C28-C36	**95.4**		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*88.9 %*	*44.4-145*		*5081433*	MS	*14-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*128 %*	*40.6-153*		*5081433*	MS	*14-Aug-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN BATTERY - SPILLS Project Number: 03C1558694 Project Manager: TRACY HILLARD Fax To:	Reported: 18-Aug-25 11:49

FS 65 6-7.5'

H255031-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**320**		16.0	mg/kg	4	5081514	KH	15-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.1 %*	*71.5-134*		*5081402*	JH	*14-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
DRO >C10-C28*	**256**		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
EXT DRO >C28-C36	**59.0**		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*85.2 %*	*44.4-145*		*5081433*	MS	*14-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*40.6-153*		*5081433*	MS	*14-Aug-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN BATTERY - SPILLS Project Number: 03C1558694 Project Manager: TRACY HILLARD Fax To:	Reported: 18-Aug-25 11:49

FS 68 6-10.5'

H255031-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5081514	KH	15-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5081402	JH	14-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*100 %*	*71.5-134*		*5081402*	JH	*14-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
DRO >C10-C28*	**40.6**		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5081433	MS	14-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*94.5 %*	*44.4-145*		*5081433*	MS	*14-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*107 %*	*40.6-153*		*5081433*	MS	*14-Aug-25*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN BATTERY - SPILLS Project Number: 03C1558694 Project Manager: TRACY HILLARD Fax To:	Reported: 18-Aug-25 11:49

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5081514 - 1:4 DI Water										
Blank (5081514-BLK1)				Prepared & Analyzed: 15-Aug-25						
Chloride	ND	16.0	mg/kg							
LCS (5081514-BS1)				Prepared & Analyzed: 15-Aug-25						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (5081514-BSD1)				Prepared & Analyzed: 15-Aug-25						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

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CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN BATTERY - SPILLS Project Number: 03C1558694 Project Manager: TRACY HILLARD Fax To:	Reported: 18-Aug-25 11:49

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5081402 - Volatiles										
Blank (5081402-BLK1)				Prepared & Analyzed: 14-Aug-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*ND*		mg/kg	*0.0500*		*99.4*	*71.5-134*			
LCS (5081402-BS1)				Prepared & Analyzed: 14-Aug-25						
Benzene	1.87	0.050	mg/kg	2.00		93.6	76.3-129			
Toluene	1.89	0.050	mg/kg	2.00		94.6	84.1-129			
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.6	80.1-133			
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.5	81.4-134			
o-Xylene	1.90	0.050	mg/kg	2.00		95.1	81.4-133			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0494*		mg/kg	*0.0500*		*98.9*	*71.5-134*			
LCS Dup (5081402-BSD1)				Prepared & Analyzed: 14-Aug-25						
Benzene	1.63	0.050	mg/kg	2.00		81.4	76.3-129	13.9	15.8	
Toluene	1.64	0.050	mg/kg	2.00		81.9	84.1-129	14.4	15.9	BS-3
Ethylbenzene	1.63	0.050	mg/kg	2.00		81.5	80.1-133	14.9	16	
m,p-Xylene	3.34	0.100	mg/kg	4.00		83.5	81.4-134	14.5	16.2	
o-Xylene	1.63	0.050	mg/kg	2.00		81.7	81.4-133	15.1	16.7	
Total Xylenes	4.97	0.150	mg/kg	6.00		82.9	81.5-134	14.7	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0486*		mg/kg	*0.0500*		*97.2*	*71.5-134*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN BATTERY - SPILLS Project Number: 03C1558694 Project Manager: TRACY HILLARD Fax To:	Reported: 18-Aug-25 11:49

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5081433 - General Prep - Organics										
Blank (5081433-BLK1)				Prepared & Analyzed: 14-Aug-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*43.2*		mg/kg	*50.0*		*86.5*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*45.5*		mg/kg	*50.0*		*91.0*	*40.6-153*			
LCS (5081433-BS1)				Prepared & Analyzed: 14-Aug-25						
GRO C6-C10	209	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	77.7-122			
Total TPH C6-C28	405	10.0	mg/kg	400		101	80.9-121			
Surrogate: 1-Chlorooctane	*53.4*		mg/kg	*50.0*		*107*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*52.0*		mg/kg	*50.0*		*104*	*40.6-153*			
LCS Dup (5081433-BSD1)				Prepared & Analyzed: 14-Aug-25						
GRO C6-C10	209	10.0	mg/kg	200		105	81.5-123	0.307	13	
DRO >C10-C28	188	10.0	mg/kg	200		94.1	77.7-122	4.29	15.6	
Total TPH C6-C28	398	10.0	mg/kg	400		99.4	80.9-121	1.89	18.5	
Surrogate: 1-Chlorooctane	*54.0*		mg/kg	*50.0*		*108*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*55.5*		mg/kg	*50.0*		*111*	*40.6-153*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 165 of 758

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Tracy Hillard
Address: 601 N Marienfeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: 575-937-3906 Fax #:
Project #: 03C1558694 Project Owner: XTO Energy
Project Name: Remuda Basin Battery - SPILLS
Project Location: 32.2907543, -103.9231556
Sampler Name: Evan Roe

BILL TO
P.O. #:
Company: XTO Energy, Inc
Attn: Colton Brown
Address: 3104 E Greene St
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
H255031		*																
1	FS37	7-10'	C	1			✓					✓		8/13/25	1425	✓	✓	✓
2	FS65	6-7.5'	C	1			✓					✓			1600	✓	✓	✓
3	FS68	6-10.5	C	1			✓					✓			1530	✓	✓	✓

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* Customer requested Depth changes. TO 8/15/25

Relinquished By: Evan Roe Date: 8.14.25 Time: 1350
Received By: S Rodriguez
Relinquished By: Date: Time:
Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
BBelill@ensolum.com, TMorrissey@ensolum.com,
THillard@ensolum.com, KThomason@ensolum.com
REMARKS:
Incident Number: NMAP1825437863 & NJMW1303140115
Cost Center:
GFCM: 48605000
AFE - PA.2023.01013.Ex.01

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Observed Temp. °C -0.5
Corrected Temp. °C -0.2
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) SR

Turnaround Time: #140 +0.3 Standard ☐ Rush ☑ 24h
Thermometer ID #113
Correction Factor -0.5°C
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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Released to Imaging: 2/10/2026 2:25:28 PM

CARDINAL Laboratories

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

August 27, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/26/2025	Sampling Date:	08/25/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 16 4-10.5 (H255297-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2025	ND	2.05	103	2.00	1.40	
Toluene*	<0.050	0.050	08/26/2025	ND	2.15	108	2.00	1.69	
Ethylbenzene*	<0.050	0.050	08/26/2025	ND	2.18	109	2.00	2.12	
Total Xylenes*	<0.150	0.150	08/26/2025	ND	6.43	107	6.00	1.56	
Total BTEX	<0.300	0.300	08/26/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/27/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2025	ND	220	110	200	1.99	
DRO >C10-C28*	**10.1**	10.0	08/26/2025	ND	218	109	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	08/26/2025	ND					

Surrogate: 1-Chlorooctane *82.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	08/26/2025	Sampling Date:	08/25/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	REMUDA BASIN - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558694	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.2909575, -103.9228491		

Sample ID: SW 17 4-7.5 (H255297-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2025	ND	2.05	103	2.00	1.40	
Toluene*	<0.050	0.050	08/26/2025	ND	2.15	108	2.00	1.69	
Ethylbenzene*	<0.050	0.050	08/26/2025	ND	2.18	109	2.00	2.12	
Total Xylenes*	<0.150	0.150	08/26/2025	ND	6.43	107	6.00	1.56	
Total BTEX	<0.300	0.300	08/26/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/27/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2025	ND	220	110	200	1.99	
DRO >C10-C28*	**24.9**	10.0	08/26/2025	ND	218	109	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	08/26/2025	ND					

Surrogate: 1-Chlorooctane *78.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *75.7 %* *40.6-153*

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CARDINAL Laboratories

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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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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: TRACY HILLARD
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 575.937.3906 Fax #:
Project #: 03C1558694 Project Owner: XTO ENERGY, INC
Project Name: REMUDA BASIN
Project Location: 32.2909575, -103.9228491
Sampler Name: CHRIS WRIGHT

BILL TO
P.O. #:
Company: XTO ENERGY, INC
Attn: DALE WOODALL
Address: 3104 E. GREENE ST.
City: CARLSBAD
State: NM Zip: 88220
Phone #:
Fax #: CFW

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	TPH	BTEX
H255297-1	SW16	4 - 10.5	C	1			✓					✓		8/25/25	0840	✓	✓	✓
2	SW17	4 - 7.5	C	1			✓					✓		8/25/25	0857	✓	✓	✓

CFW

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Relinquished By: CFW Date: 8.26.25 Time: 1400 Received By:
Relinquished By: Date: Time: Received By:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 0.1 Corrected Temp. °C 0.2
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
thillard@ensolum.com tmorrissey@ensolvm.com cwright@ensolum.com
REMARKS:
Incident: NMAP1825437863, NJIMW1503140115
GECM: 48605000
AFE: PA.2023.01013.EXP.01
PA.2023.01014.EXP.01
Turnaround Time: Standard ☐ Rush ☒
24 HR
Thermometer ID: #140
Correction Factor: +0.3°
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

ENSOLUM

Appendix E

November 14, 2011,
Soil Assessment and Remediation Report

TAYLOR

RECEIVED
NOV 14 2011
NMOCD ARTESIA

November 10, 2011

Mr. Mike Bratcher
Environmental Specialist
NMOCD District 2
811 S. First Street
Artesia, NM 88210

RE: Crude Oil Spill – August 30, 2011
Remuda Basin Lease #080423
XTO Energy Site
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed, please find one copy of the Clean-up and Remediation Soil Assessment Report for the crude oil release at the Remuda Basin Lease #080423 in Eddy County, New Mexico.

If you require any additional information, please contact me, at (214) 461-5563 or by email celestek@taylorgasliquids.com.

Regards,
TPG Transport, LLC

Celeste J. Kaban
HSSE and Environmental Compliance

Cc. Ms. Velma Gallardo, XTO Energy Inc.

3819 Towne Crossing Blvd. # 100
Mesquite, TX 75150

TALON LPE

RECEIVED
NOV 14 2011
NMOCD ARTESIA

March 31, 2011

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

AUSTIN
911 West Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

SAN ANTONIO
17170 Jordan Rd
Suite 102
Selma, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

TULSA
525 South Main Street
Suite 535
Tulsa, Oklahoma 74103
Phone 918.742.0871
Fax 918.382.0232

Mr. Mike Bratcher
NMOCD District 2
1301 West Grand Avenue
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Report**
XTO Tank Battery S19-T23S-R30E
Remuda Basin Crude Oil Release

Dear Mr. Bratcher,

TPG Transport LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Remuda Basin Bulk Petroleum Storage facility. The incident description, soil assessment, remediation activities and closure request are submitted herein.

Incident Date

August 30, 2010

Background Information

The Remuda Basin tank Battery is located approximately twenty (20) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 19 - Township 23S - Range 30E. This site and surrounding topography have little to no slope and drainage courses in this area are normally dry. The local surface and shallow geology includes silty soils under lain by sand stone and clay layers, providing an impermeable barrier to the migration of fluids in the area of the release. The New Mexico State Engineer web site indicates the nearest ground water data to be in S19-T23S-R30E. The ground water in Section 19 is reported to be at an average depth of 350' below ground surface (bgs).

The ranking for this site is 0 based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

On August 30, 2010 a transport truck owned by TPG Transport LLC was loading crude oil from the Remuda Basin tank battery. Due to driver error, fifty-three (53) barrels of crude oil were released into the bermed area of the tank battery. The release area was measured to be approximately two hundred (200') feet in length and average approximately twenty to forty (20'-40') feet in width. The release area was located on the eastern portion of, and contained within the tank battery berm. This area contains production equipment along with hydrocarbon and produced water bulk storage tanks. A site plan is attached.

Actions Taken

On August 30, 2010 a vacuum truck was utilized to recover 46 barrels of crude oil. On September 2, 2010 Talon/LPE mobilized personnel to begin soil sampling and site assessment activities. A hand auger was used to obtain vertical delineation samples for TPH (total petroleum hydrocarbons) and BTEX (volatile organics). A series of eight grab samples were collected from the impacted area located within the bermed area of the tank battery. The soil sample locations were labeled S-1, S-2 and S-3 and are illustrated on the attached Site Plan.

The samples were collected from the surface of the release area to a depth of one to two feet (1'-2') below ground surface (bgs) within the crude oil impacted area. All soil samples were collected by Talon personnel utilizing a hand auger and wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. Samples were tested for BTEX (volatile organics) using Method 8021B, and TPH (total petroleum hydrocarbons) analysis per Method 8015M.

Analytical Results

Analytical results detailed on the attached laboratory report dated September 10, 2010 are summarized below.

Sample, Depth		BTEX	TPH	(mg/kg)
S-1	surface	<50	1830	mg/kg
S-1	0.5'	ND*	181	
S-1	1.0'	ND	ND	
S-2	surface	<50	4407	
S-2	1.0'	ND	14.7	
S-2	2.0'	ND	ND	

Sample, Depth		BTEX	TPH	(mg/kg)
S-3	surface	<50	6149	mg/kg
S-3	1.0'	83	5300	

*ND Not Detected within laboratory method detection limits

For this site's ranking, New Mexico Oil Conservation District (NMOCD) action level criteria for BTEX are 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg.

Remedial Actions

Based on the fact that there are a number of underground utility lines unable to be located at the site, traditional excavation and disposal methods for the impacted soils was not a feasible option. Because the release consisted solely of crude oil, and following discussions with client and review of the above referenced petroleum analytical data; a spray application of a bio-remediation agent (Micro Blaze) and a follow up 90-day soil sampling event was deemed a viable and practical remedial alternative.

On the morning of November 13, 2010 Talon personnel remobilized to the subject facility to carry out remedial actions. The impacted area was scraped/furrowed using pick axes and hand tools to enhance adsorption of the Micro Blaze solution into the location. A total of 500-gallons of fresh water and Micro Blaze were mixed according to manufacture specifications and spray applied to the impacted area.

On the afternoon of November 13, 2010 a second 500-gallon Micro Blaze application was sprayed onto the area impacted by the crude oil release.

On January 28, 2011, confirmation soil samples were collected from the same general areas previously sampled and placed in laboratory provided sample containers. All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. Samples were tested for TPH (total petroleum hydrocarbons) analysis per Method 8015M and BTEX (volatile organics) via Method 8021B. A copy of the lab report dated February 1, 2011 is attached hereto and summarized on the following data table.

Sample, Depth		BTEX	TPH (mg/kg)
S-1	0-feet	*	3540 mg/kg
S-2	0'	*	131
S-3	0'	ND**	407
S-3	1'	ND	ND
S-3	2'	*	ND

* Analyte not tested.
** ND Not detected within laboratory method detection limits.

For this site's ranking, NMOCD action level criteria for BTEX are 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg.

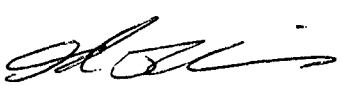
Conclusions and Recommendations

- Groundwater in the project vicinity is reported to be approximately 350-feet below land surface per the New Mexico State Engineer database.
- 53-barrels of crude oil were released and 46-barrels were recovered the same day. The release was completely contained within the bermed area of the tank battery.
- Remedial actions consisting of 1,000-gallons of Micro Blaze solution were spray applied to the impacted area.
- Based upon the results of the sampling and analytical program, all chemical parameters tested for are reported to be below their respective Recommended Remedial Action Levels (RRALs).
- Therefore, on behalf of TPG Transport and XTO Energy, we respectfully request that no further actions be required and that closure with respect to this release be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768, or dadkins@talonlpe.com.

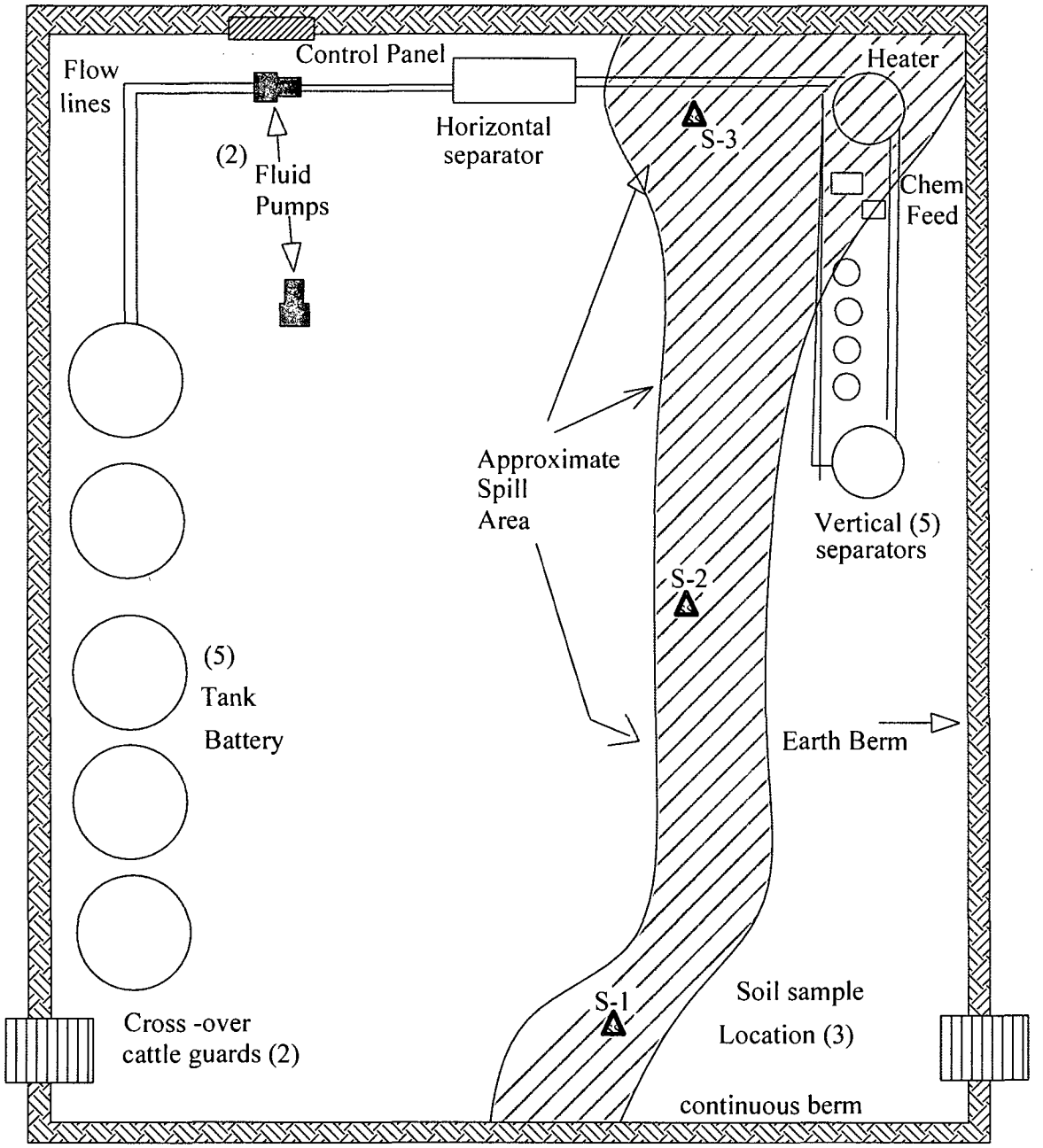
Respectfully submitted,

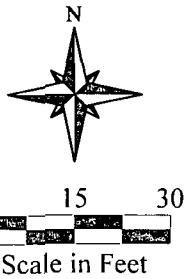
TALON/LPE



David J. Adkins
District Manager

SITE PLAN





Legend

▲ - Surface Soil Samples

Date: 03/16/2011	XTO Energy
Scale: 1" = 30'	Remuda Basin Tank Battery
Drawn By: TJS	Eddy County, New Mexico
	Site Plan

GROUNDWATER DATA

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02095		STK	ED		2	3	34	23S	30E	606337	3569759*	554	440	114
C 02486	C	PRO	ED	3	2	3	19	23S	30E	601304	3572832*	350		
C 02770		MON	ED	4	4	1	14	23S	30E	608004	3574921*	286		
C 02771		MON	ED	1	2	3	14	23S	30E	607807	3574718*	295		
C 02772		MON	ED	4	4	1	14	23S	30E	608004	3574921*	420		
C 03139		MON	ED	4	2	4	01	23S	30E	610424	3577764*	425		
C 03222 EXPLORE		MON	ED	1	1	4	12	23S	30E	609833	3576349*	365		

Average Depth to Water: 440 feet
Minimum Depth: 440 feet
Maximum Depth: 440 feet

Record Count: 7

PLSS Search:

Township: 23S Range: 30E

*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.

LABORATORY REPORTS

CARDINAL Laboratories

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

September 10, 2010

DAVID ATKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: REMUDA BASIN CONSOL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/03/10 13:06.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene
Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-1 SURFACE (H020801-01)

BTEX 8021B mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.290**	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	**0.810**	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	**0.230**	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	**1.14**	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL *97.1 %* *80-120*

TPH 8015M mg/kg Analyzed By: AB S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	**1830**	50.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane *19.6 %* *70-130*

Surrogate: 1-Chlorooctadecane *21.2 %* *70-130*

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-1 .5' BGS (H020801-02)

BTEX 8021B mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL *93.6 %* *80-120*

TPH 8015M mg/kg Analyzed By: AB

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	**181**	10.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane *88.2 %* *70-130*

Surrogate: 1-Chlorooctadecane *79.1 %* *70-130*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-1 1' BGS (H020801-03)

BTEX 8021B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL *105 %* *80-120*

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	<10.0	10.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane *87.2 %* *70-130*

Surrogate: 1-Chlorooctadecane *71.0 %* *70-130*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-2 SURFACE (H020801-04)

BTEX 8021B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.102**	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	**1.79**	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	**1.32**	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	**6.83**	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL *98.6 %* *80-120*

TPH 8015M mg/kg **Analyzed By: AB** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**447**	50.0	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	**3960**	50.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane *23.0 %* *70-130*

Surrogate: 1-Chlorooctadecane *17.9 %* *70-130*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-2 1' BGS (H020801-05)

BTEX 8021B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL *105 %* *80-120*

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	**47.7**	10.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane *89.4 %* *70-130*

Surrogate: 1-Chlorooctadecane *71.4 %* *70-130*

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-2 2' BGS (H020801-06)

BTEX 8021B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL *104 %* *80-120*

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	<10.0	10.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane *104 %* *70-130*

Surrogate: 1-Chlorooctadecane *81.6 %* *70-130*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-3 SURFACE (H020801-07)

BTEX 8021B mg/kg **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.370**	0.100	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	**3.83**	0.100	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	**1.58**	0.100	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	**5.93**	0.300	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL	*100 %*	*80-120*

TPH 8015M mg/kg **Analyzed By: AB** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**599**	100	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	**5550**	100	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane	*9.88 %*	*70-130*
Surrogate: 1-Chlorooctadecane	*8.38 %*	*70-130*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TALON LPE
DAVID ATKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S-3 1' BGS (H020801-08)

BTEX 8021B mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.10**	0.250	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	**27.4**	0.250	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	**11.0**	0.250	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	**41.5**	0.750	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL *106 %* *80-120*

TPH 8015M mg/kg Analyzed By: AB **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**2640**	50.0	09/06/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	**2660**	50.0	09/06/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane *20.9 %* *70-130*

Surrogate: 1-Chlorooctadecane *17.3 %* *70-130*

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Talon LPE	BILL TO	
Project Manager:	David Atkins	P.O. #:	
Address:	408 W. Texas Ave.	Company:	Talon/LPE
City:	Artesia State: NM Zip: 88210	Attn:	
Phone #:	575-746-8768 Fax #: 575-746-8905	Address:	
Project #:	201296.002.01 Project Owner: TPG Transport LLC.	City:	
Project Name:	Remuda Basin Consol Tank battery	State: Zip:	
Project Location:	sec. 19-23s-30e	Phone #:	
Sampler Name:	Mike Stubblefield	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH 8015M	BTEX 8060	Fingerprint									
H20801-1	001 S-1 Surface	G				✓					✓		9/2/2010	2:11 P	✓	✓	✓									
2	002 S-1 .5' bgs	G				✓					✓		9/2/2010	2:20 P	✓	✓										
3	003 S-1 1' bgs	G				✓					✓		9/2/2010	2:24 P	✓	✓										
4	004 S-2 Surface	G				✓					✓		9/2/2010	2:38 P	✓	✓										
5	005 S-2 1' bgs	G				✓					✓		9/2/2010	2:40 P	✓	✓										
6	006 S-2 2' bgs	G				✓					✓		9/2/2010	2:45 P	✓	✓										
7	007 S-3 Surface	G				✓					✓		9/2/2010	2:52 P	✓	✓										
8	008 S-3 1' bgs	G				✓					✓		9/2/2010	3:00 P	✓	✓	✓									

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Relinquished By: Mike Stubblefield	Date: 9/3/2010 Time: 1:06 PM	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By: Jodi Henson	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	CHECKED BY: (Initials)	REMARKS:

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

#26

CARDINAL Laboratories

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

February 01, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: REMUDA BASIN CONSOL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/28/11 10:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene
Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
MIKE STUBBLEFIELD
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	01/28/2011	Sampling Date:	01/26/2011
Reported:	02/01/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S - 1 0' (H100199-01)

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	**3540**	50.0	01/31/2011	ND	211	84.4	250	2.46	

Surrogate: 1-Chlorooctane	*104 %*	*70-130*
Surrogate: 1-Chlorooctadecane	*96.4 %*	*70-130*

Sample ID: S - 2 0' (H100199-02)

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	**131**	10.0	01/31/2011	ND	211	84.4	250	2.46	

Surrogate: 1-Chlorooctane	*101 %*	*70-130*
Surrogate: 1-Chlorooctadecane	*98.1 %*	*70-130*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TALON LPE
MIKE STUBBLEFIELD
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	01/28/2011	Sampling Date:	01/26/2011
Reported:	02/01/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S - 3 0' (H100199-03)

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	**407**	10.0	01/31/2011	ND	211	84.4	250	2.46	

Surrogate: 1-Chlorooctane	*105 %*	*70-130*
Surrogate: 1-Chlorooctadecane	*100 %*	*70-130*

Sample ID: S - 3 1' (H100199-04)

BTEX 8021B mg/kg **Analyzed By: CMS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2011	ND	2.18	109	2.00	15.3	
Toluene*	<0.050	0.050	01/31/2011	ND	2.16	108	2.00	14.0	
Ethylbenzene*	<0.050	0.050	01/31/2011	ND	2.17	108	2.00	11.6	
Total Xylenes*	<0.150	0.150	01/31/2011	ND	6.38	106	6.00	10.2	

Surrogate: 4-Bromofluorobenzene (PIL	*99.0 %*	*70-130*

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	

Surrogate: 1-Chlorooctane	*97.6 %*	*70-130*
Surrogate: 1-Chlorooctadecane	*109 %*	*70-130*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TALON LPE
MIKE STUBBLEFIELD
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:	01/28/2011	Sampling Date:	01/26/2011
Reported:	02/01/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

Sample ID: S - 3 2' (H100199-05)

TPH 8015M **mg/kg** **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	

Surrogate: 1-Chlorooctane	*105 %*	*70-130*
Surrogate: 1-Chlorooctadecane	*112 %*	*70-130*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Talon/LPE	BILL TO	
Project Manager:	Mike Stubblefield	P.O. #:	
Address:	408 W. Texas Ave.	Company:	Talon/LPE
City:	Artesia State: NM Zip: 88210	Attn:	
Phone #:	575-441-7254 Fax #: 575-746-8768	Address:	
Project #:	201296.002.01 Project Owner: TPG Transport LLC	City:	
Project Name:	Remuda Basin Consol Tank Battery	State: Zip:	
Project Location:	Sec. 19-23S-30E	Phone #:	
Sampler Name:	Mike Stubblefield	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	ANALYSIS REQUEST: 8015M (TPH)	8021B (BTEX)	
H100199																	
-1	S-1 0'	C				✓					✓		1/26/2011	10:54A	✓		*
2	S-2 0'	C				✓					✓		1/26/2011	11:10A	✓		
3	S-3 0'	C				✓					✓		1/26/2011	11:14A	✓		
4	S-3 1'	C				✓					✓		1/26/2011	11:16A	✓	✓	
5	S-3 2'	C				✓					✓		1/26/2011	11:19A	✓		

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Relinquished By:	Date: 1/28/2011	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Mike Stubblefield	Time: 1:00 PM		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date: 1/28/11	Received By:	REMARKS: Sample #1 (S-1 0') broken in transit.
	Time: 10:20		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool: Yes / Intact: Yes	CHECKED BY: (Initials)	

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

#26

FORM C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **XTO Energy Inc.**	Contact **Velma Gallardo, Production Analyst**
Address **200 North Loraine Ste 800, Midland, TX 79701**	Telephone No. **432-620-4315**
Facility Name **Remuda Basin**	Facility Type **Bulk Petroleum Storage facility/Battery**
REPONSIBLE PARTY: TPG Transport LLC **3819 Towne Crossing Blvd Suite 100, Mesquite, TX 75150**	

Surface Owner	Mineral Owner	Lease No. 080423

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	19	**23S**	**30E**					**Eddy**

Latitude 32.2908N **Longitude 103.9217W**

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **53 bbls**	Volume Recovered **46 bbls**
Source of Release **Cargo trailer overflow.**	Date and Hour of Occurrence: **Monday Aug 30, 2010 09:00 CST**	Date and Hour of Discovery- reported **Monday Aug 30, 2010 09:00 CST**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **XTO Energy Inc. – Jerry Parker, Production Foreman**	
By Whom? **James Brown, Team Leader, TPG Transport LLC**	Date and Hour **09:00 CST Monday August 30, 2010**	
Was a Watercourse Reached? ☐ Yes ☒ **No**	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* **no impact to waterways.**

Describe Cause of Problem and Remedial Action Taken.*
Driver overflowed cargo trailer resulting in a 53 bbl crude oil release. Release was contained within the facility berm. Incident investigation pending.

Describe Area Affected and Cleanup Action Taken.* **Vac truck removed standing oil. Environmental remediation by Talon LPE (contracted by TPG Transport LLC), locates completed Sept 1, soil sampling Thursday Sept 2, based on lab analytical remedial action will be either on site blending and replacement or off-site disposal and backfill with clean material.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION Approved by District Supervisor:	
Printed Name: **Celeste Kaban**		
Title: **HSSE & Environmental Compliance TPG Transport LLC**	Approval Date:	Expiration Date:
E-mail Address: **celestek@taylorgasliquids.com**	Conditions of Approval:	Attached ☐
Date: **September 2, 2010** **Phone: 214-461 5563 (office) 903-466-2867 (mobile)**		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **XTO Energy, Inc.**	Contact Velma Gallardo, Production Analyst
Address 200 North Loraine, Suite 800, Midland, TX 79701	Telephone No. 432.620.4315
Facility Name Remuda Basin Tank Battery	Facility Type Bulk Petroleum Storage Facility

RESPONSIBLE PARTY: TPG Transport, LLC 3819 Towne Crossing Blvd., Suite 100, Mesquite, TX 75150

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	19	23S	30E					Eddy

Latitude 32.2908N **Longitude** -103.9217W

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 53 bbls	Volume Recovered 46 bbls
Source of Release Cargo trailer overflow	Date and Hour of Occurrence Aug 30, 2010 at 1000	Date and Hour of Discovery Aug 30, 2010 at 1000
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? XTO Energy Inc. To Jerry Parker, Production Foreman	
By Whom? James Brown, Team Leader, TPG Transport LLC	Date and Hour Aug 30, 2010 at 1000	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

No impact to local waterways.

Describe Cause of Problem and Remedial Action Taken.*

Driver overflowed cargo trailer incurring a 53 barrel release of crude oil. Incident was fully contained within the facility berm. 46 barrels of oil were subsequently recovered same day with a vac truck.

Describe Area Affected and Cleanup Action Taken.*

The spill occurred within the tank battery berms. Soil samples were collected evaluate the impacts to the spill area a few days later. 1,000 gallons of a Micro Blaze and water solution were subsequently spray applied to bio-remediate the impacted area. Follow up soil samples were collected approximately 90-days later to determine effectiveness of remedial actions. Total petroleum hydrocarbons and volatile organics were found to be below NMOCD recommended remedial action levels. A complete closure report documenting all site activities is attached with site plan and analytical reports for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: David J. Adkins	Approved by District Supervisor:	
Title: District Manager, Talon/LPE	Approval Date:	Expiration Date:
E-mail Address: dadkins@talonlpe.com	Conditions of Approval:	Attached ☐
Date: April 11, 2011 Office: 575.746.8768 Mobile: 575.441.4835		

* Attach Additional Sheets If Necessary

ENSOLUM

Appendix F

June 11, 2021,
Deferral Request Addendum

WSP USA
3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

June 11, 2021

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: Deferral Request Addendum
Remuda Basin Central Tank Battery
Remediation Permit Number 2RP-4958
Incident Number NMAP1825437863
Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following addendum to an original Deferral Request submitted November 19, 2018. This addendum details additional delineation, excavation, and soil sampling activities conducted at the Remuda Basin Central Tank Battery (Site) located in Unit F, Section 19, Township 23 South, Range 30 East, in Eddy County, New Mexico (Figure 1) in response to the denial of the Deferral Request by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD requested additional soil sampling activities to fully delineate the release. Based on the additional delineation and remediation work completed, XTO is submitting this Deferral Request Addendum, requesting deferral of final remediation for Remediation Permit Number (RP) 2RP-4958 and Incident Number NMAP1825437863.

BACKGROUND

On August 21, 2018, a fuse burned out, causing the high-level alarm at the battery to fail. The transfer pump did not receive the signal to engage and a tank overflowed into the earthen containment surrounding the tanks. Approximately 1 barrel (bbl) of crude oil and 54 bbls of produced water were released into the containment area and onto the west side of the caliche well pad. Vacuum trucks were immediately dispatched to the Site to recover free-standing fluids. Approximately 1 bbl of crude oil and 49 bbls of produced water were recovered. The release was contained on site within the earthen containment. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on August 24, 2018 and was assigned RP Number 2RP-4958 and Incident Number NMAP1825437863.

Based on the site characterization described in the original Deferral Request, the following Closure Criteria were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg.

Site receptors are depicted on Figure 1 and well records are included in Attachment 1.

As detailed in the original Deferral Request, XTO excavated 540 yards of soil between October 25, 2018 and November 15, 2018. Impacted soil containing elevated hydrocarbon and chloride concentrations, as indicated by excavation floor samples FS01 through FS06 and sidewall samples SW01 through SW06, was left in place due to challenges associated with excavating shallow competent bedrock and XTO's safety policy regarding earth-moving activities near production equipment and flow lines. The release extent, original excavation and associated excavation samples are depicted on Figure 2. Following the excavation, XTO submitted a Deferral Request on November 19, 2018 requesting to leave impacted soil near active production equipment in place until final plugging and abandonment. Following the submittal, the excavation was backfilled so the active production equipment could be returned to operation and the equipment could be safely accessed by XTO personnel.

On April 3, 2019, NMOCD denied the Deferral Request for Incident Number NMAP1825437863 with the following response:

- *Please take additional samples moving out from the perimeter of the excavation so that we have a better idea of the actual size of the spill. Also, please delineate vertically (1, 2, 3 ft intervals) as far as you can go before hitting bedrock.*

The following sections detail efforts to fully delineate the release as requested by NMOCD.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

Between November 12, 2018 and December 30, 2019, WSP personnel returned to the Site multiple times to attempt delineation activities. Potholes PH01 through PH07 were advanced via track mounted backhoe and boreholes BH01 through BH34 were advanced via hand auger on the well pad and surrounding pasture. The terminal depth of the potholes and boreholes was determined by refusal at the presence of shallow, competent bedrock typically encountered between 1 and 2 feet below ground surface (bgs). Two discrete delineation samples were collected from each pothole and borehole from depths ranging from 0.5 feet to 2.5 feet bgs. Soil from the potholes and boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes and boreholes were logged on lithologic/soil sampling logs, which are included in Attachment 2.

Potholes PH03, PH05 through PH07, and boreholes BH06 through BH11, BH17, BH18, BH23 through BH29, and BH31 were advanced on pad and potholes PH01, PH02, and PH04 and boreholes BH01 through BH05, BH12 through BH16, BH19 through BH22, BH30, and BH32 through BH34 were advanced in off pad pasture areas. All delineation pothole and borehole sample locations are depicted on Figure 3. Photo documentation was completed, and a photographic log is included in Attachment 3.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Xenco Laboratories (Eurofins Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH- diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Boreholes BH15 and BH22 were advanced as background borings away from any active well production equipment and in areas exhibiting healthy vegetation to establish naturally occurring chloride concentrations. Laboratory analytical results for samples collected from background boreholes BH15 and BH22, indicated naturally occurring chloride concentrations ranging from 14.1 mg/kg to 889 mg/kg.

Laboratory analytical results for the delineation soil samples from potholes PH01 through PH03, PH05 through PH07, BH02 through BH14, BH16, BH19, and BH22 indicated that benzene and BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria or below the background chloride concentration of 889 mg/kg. Laboratory analytical results for all other delineation soil samples exceeded the Closure Criteria for TPH and/or the background chloride concentration. TPH concentrations exceeding the Closure Criteria ranged from 130 mg/kg to 18,700 mg/kg. Chloride concentrations exceeding the naturally occurring chloride concentration and ranged from 1,030 mg/kg to 6,400 mg/kg. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

Based on field screening activities and laboratory analytical results for the delineation pothole and borehole samples, multiple historical releases were encountered at the Site. XTO proceeded with additional excavation at select locations to carefully remove impacted soil near production equipment and in isolated areas that appeared unrelated to the reported release. WSP personnel oversaw the excavation of impacted soil at 13 locations, on and off pad using a hydrovacuum truck.

OFF-PAD EXCAVATION ACTIVITIES

Between August 2019 and May 2020 WSP personnel were at the Site to oversee supplemental excavation activities in spot locations. The excavations were advanced to competent bedrock,

where refusal was encountered. The excavations were each less than 200 square feet in area. WSP personnel collected one composite soil sample from each excavation (FS07, FS08/FS08A, FS10/FS10A, FS12, FS11, FS16, FS15, FS14, and FS13) at depths ranging from 1 foot bgs to 2.5 feet bgs. Due to the shallow depth and small area of the excavations, floor samples were representative of the sidewalls. The soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing to form one composite sample. The soil samples were collected, handled, and analyzed as described above, and submitted to Xenco in Carlsbad, New Mexico. The excavation extents and excavation sample locations are identified in Figure 4.

Laboratory analytical results for excavation samples FS08 and FS10 initially exceeded the Closure Criteria for chloride. Additional soil was removed from these areas and subsequent excavation samples FS08A and FS10A were compliant with the Closure Criteria. Laboratory analytical results for all final excavation soil samples collected in the pasture indicated that benzene and BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria or below the background chloride concentration of 889 mg/kg. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

ON-PAD EXCAVATION AND REMEDIATION ACTIVITIES

Between September 2019 and July 2020 WSP personnel were at the Site to oversee excavation activities excavation on pad near boreholes BH23, BH24, BH25, and BH29. The excavations were advanced to competent bedrock. The excavations were each less than 200 square feet in area. WSP personnel collected one composite soil sample from each excavation (FS09, FS19, FS18, and FS17) at depths ranging from 1 foot bgs to 3 feet bgs. Due to the shallow depth of the excavations, floor samples were representative of the sidewalls. The soil samples were collected, handled, and analyzed as described above, and submitted to Xenco in Carlsbad, New Mexico. The excavation extents and excavation sample locations are identified in Figure 4.

Laboratory analytical results for excavation samples FS09 and FS18 indicate that benzene, BTEX, TPH and chloride concentrations were compliant with Closure Criteria or background chloride concentrations. Laboratory analytical results for excavation samples FS17 and FS19, collected on pad near active production equipment, indicated TPH concentrations exceeded the Closure Criteria. In addition, soil contained concentrations of chloride exceeding the background of 889 mg/kg in FS17.

Excavation was not completed in the areas of on pad borings BH26, BH27, BH28, and BH31 due to proximity of active production equipment or pipelines. Portions of the area were hand excavated with the use of shovels where it was possible to do so. To address remaining TPH impacts identified on pad in those areas and the excavations represented by floor samples FS17 and FS19, WSP personnel oversaw the application of MicroBlaze®. These areas were sprayed with

a dilution of MicroBlaze® and freshwater, followed with raking. The MicroBlaze® dilution was reapplied in the excavated areas and sampling of the treated soil was planned in accordance with the calculations for biodegradation rates. The first application of MicroBlaze® occurred on May 13, 2020 and following subsequent applications, the final floor samples were collected on November 25, 2020. The application of MicroBlaze® resulted in the reduction of TPH concentrations from 10,800 mg/kg to 880 mg/kg in floor sample FS17 and from 3,180 mg/kg to 1,550 mg/kg in floor sample FS19. MicroBlaze® was applied to the areas around boreholes BH26, BH27, BH28, and BH31; however, no post MicroBlaze® application samples were collected. Based on the analytical results for the above floor samples, WSP observed an average TPH reduction rate of 71%. TPH concentrations in boreholes BH26, BH27, BH28, and BH31 initially ranged from 809 mg/kg collected at 0.5 feet bgs in BH27 to 143 mg/kg collected at 0.5 feet bgs in BH28. The terminal sample for each of those boreholes, collected at depths ranging from 1 foot to 1.5 feet bgs were compliant with Closure Criteria for TPH.

PEDESTRIAN KARST SURVEY

Following delineation of the Site, WSP requested a pedestrian karst survey be completed by a Bureau of Land Management (BLM) certified karst specialist to determine the presence or absence of surface karst-related features within approximately 650 feet of the Site. The presence or absence of karst features was investigated to better understand environmental receptors that would be affected by a deferral request. The survey was completed on January 30, 2020. No surface karst features were located within the pedestrian survey area. The complete survey report with the survey line is included in Attachment 5.

DEFERRAL REQUEST

A total of approximately 325 cubic yards of impacted soil were excavated from the Site; however, residual impacted soil was left in place on pad immediately adjacent to active production equipment for compliance with XTO safety policy regarding earth moving activities within 2 feet of any active production equipment. Excavation was limited vertically by the presence of shallow competent bedrock, which is described and photographed in detail in the original Deferral Request.

An estimated 835 cubic yards of soil is left in place on pad near active production equipment and above competent bedrock assuming a maximum depth of 1 foot to 2 feet bgs. The deferral areas, approximately 11,275 square feet, is depicted on Figure 5. The deferral areas are fully delineated laterally and vertically to the north by BH12, BH14, and BH16, to the south by BH04 and BH05 and PH07, to the east by BH15, BH22, PH05, and PH06, and to the west by BH13, PH01, and PH02.

XTO requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. WSP and XTO do not believe deferment

will result in imminent risk to human health, the environment, or groundwater based on the following Site conditions:

- The majority of the released fluids were recovered during initial response activities,
- The impacted soil remaining in place is limited to the on-pad areas surrounding the production equipment,
- A pedestrian survey was conducted of the Site by a BLM certified karst specialist and no surficial karst features were observed,
- Regional depth to groundwater in the area is documented to be greater than 100 feet bgs,
- Vertical migration of impacts is limited by the competent bedrock encountered at a maximum of 1.5 feet bgs, and
- No saturated soil remains in-place.

As such, WSP and XTO believe deferment is equally protective of human health, environment, and groundwater. XTO has addressed the reasons for denial provided by the NMOCD and respectfully requests deferral of final remediation for Incident Number NMAP1825437863 until any future major construction/alteration or final abandonment of the facility and well pad, whichever occurs first.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,
WSP USA, INC.

Tacoma Morrissey
Consultant, Geologist

Ashley L. Ager, P.G.
Managing Director, Geologist

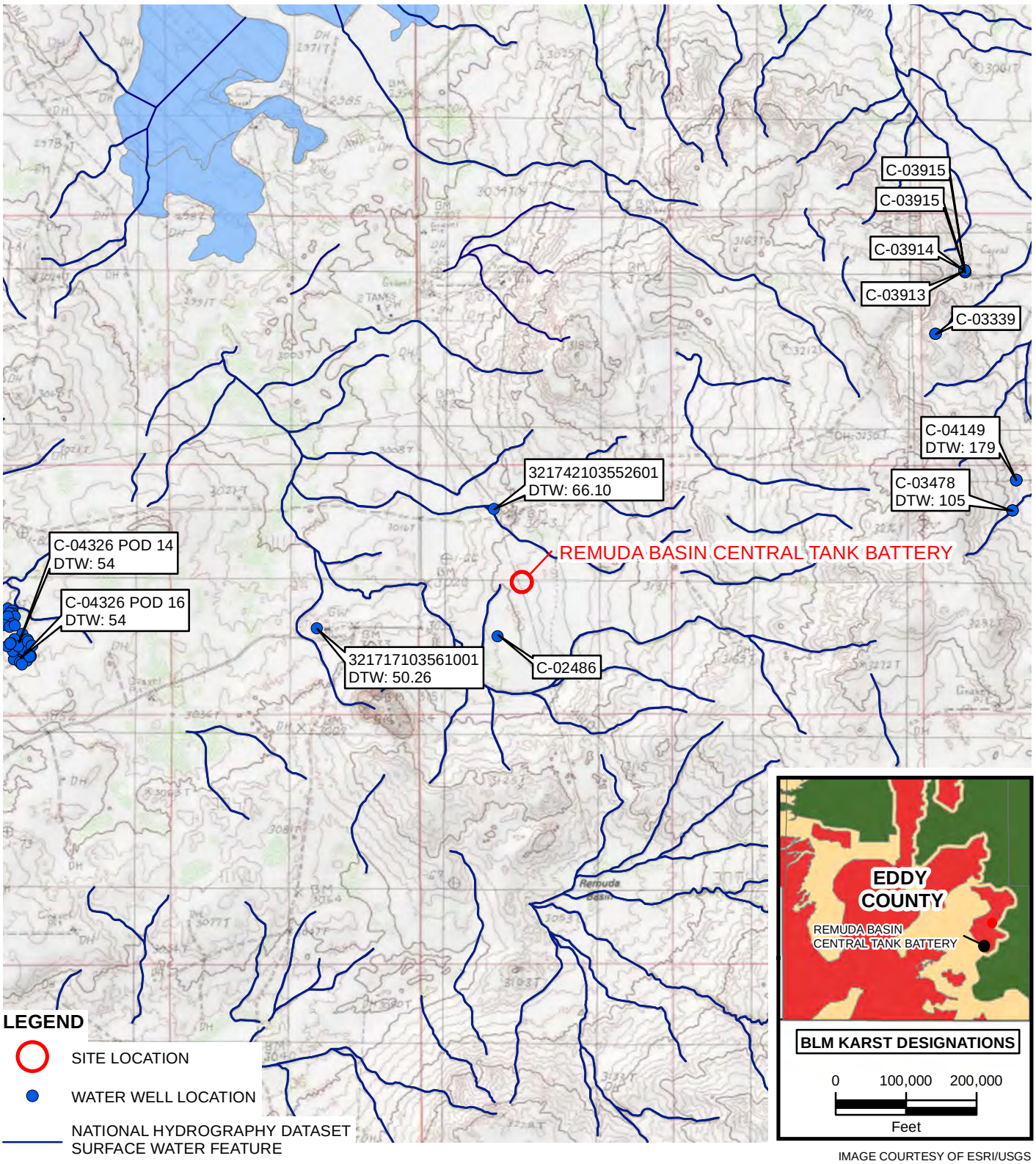
cc: Kyle Littrell, XTO
Ryan Mann, New Mexico State Land Office

Attachments:

Figure 1 Site Location Map

Figure 2 2018 Excavation Soil Samples
Figure 3 Delineation Soil Samples
Figure 4 2019-2020 Excavation Soil Samples
Figure 5 Deferral Area
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic / Soil Sample Logs
Attachment 3 Photographic Log
Attachment 4 Laboratory Analytical Reports
Attachment 5 Cave and Karst Resource Inventory Report

FIGURES



NOTE: REMEDIATION PERMIT NUMBER 2RP-4958
INCIDENT NUMBER NMAP1825437863
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
REMUDA BASIN CENTRAL TANK BATTERY
UNIT F SEC 19 T23S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

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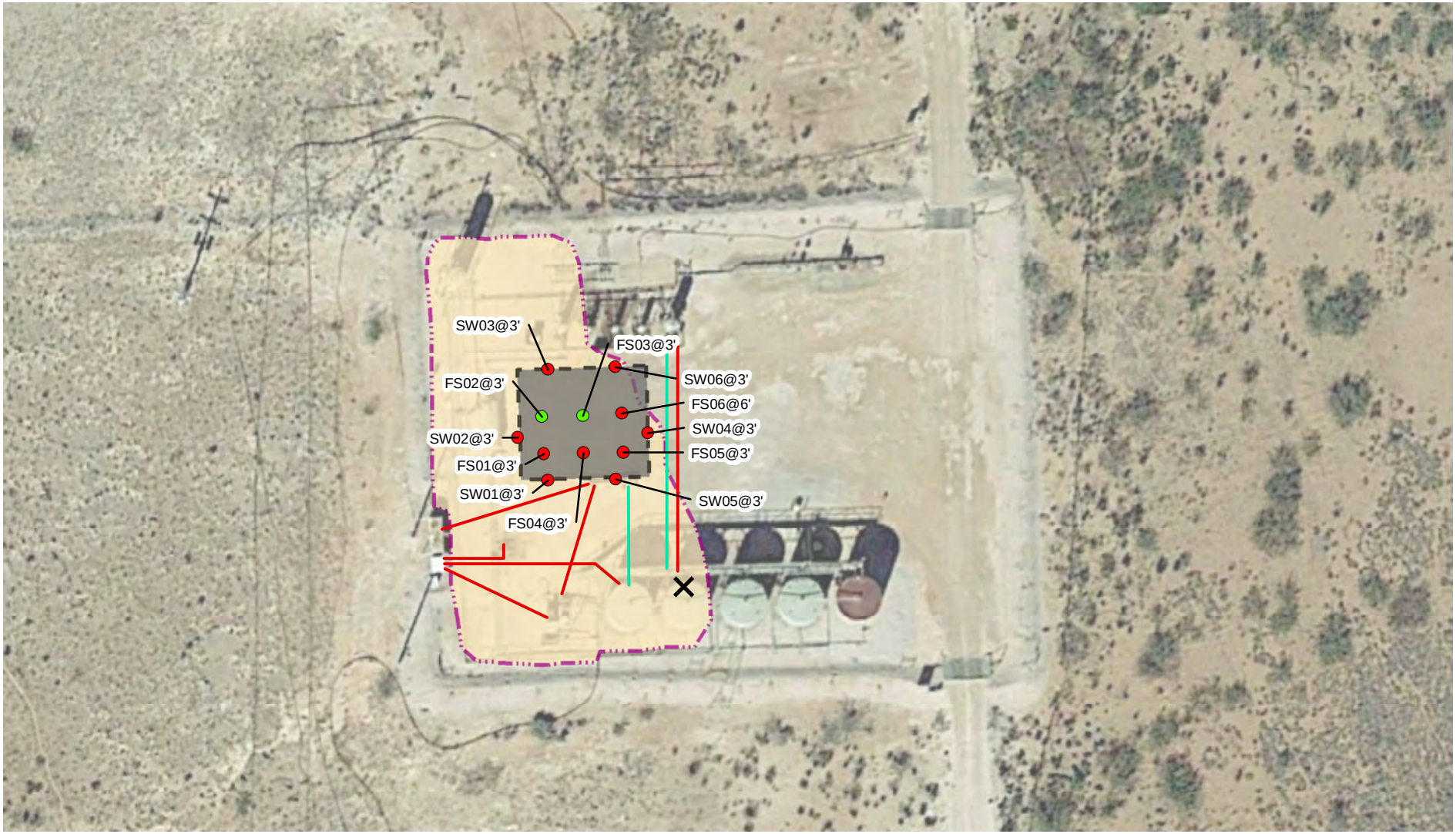


IMAGE COURTESY OF GOOGLE EARTH 2017

LEGEND

- RELEASE LOCATION
- EXCAVATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- EXCAVATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- ELECTRIC LINE
- PRODUCED WATER LINE
- RELEASE EXTENT
- EXCAVATION EXTENT

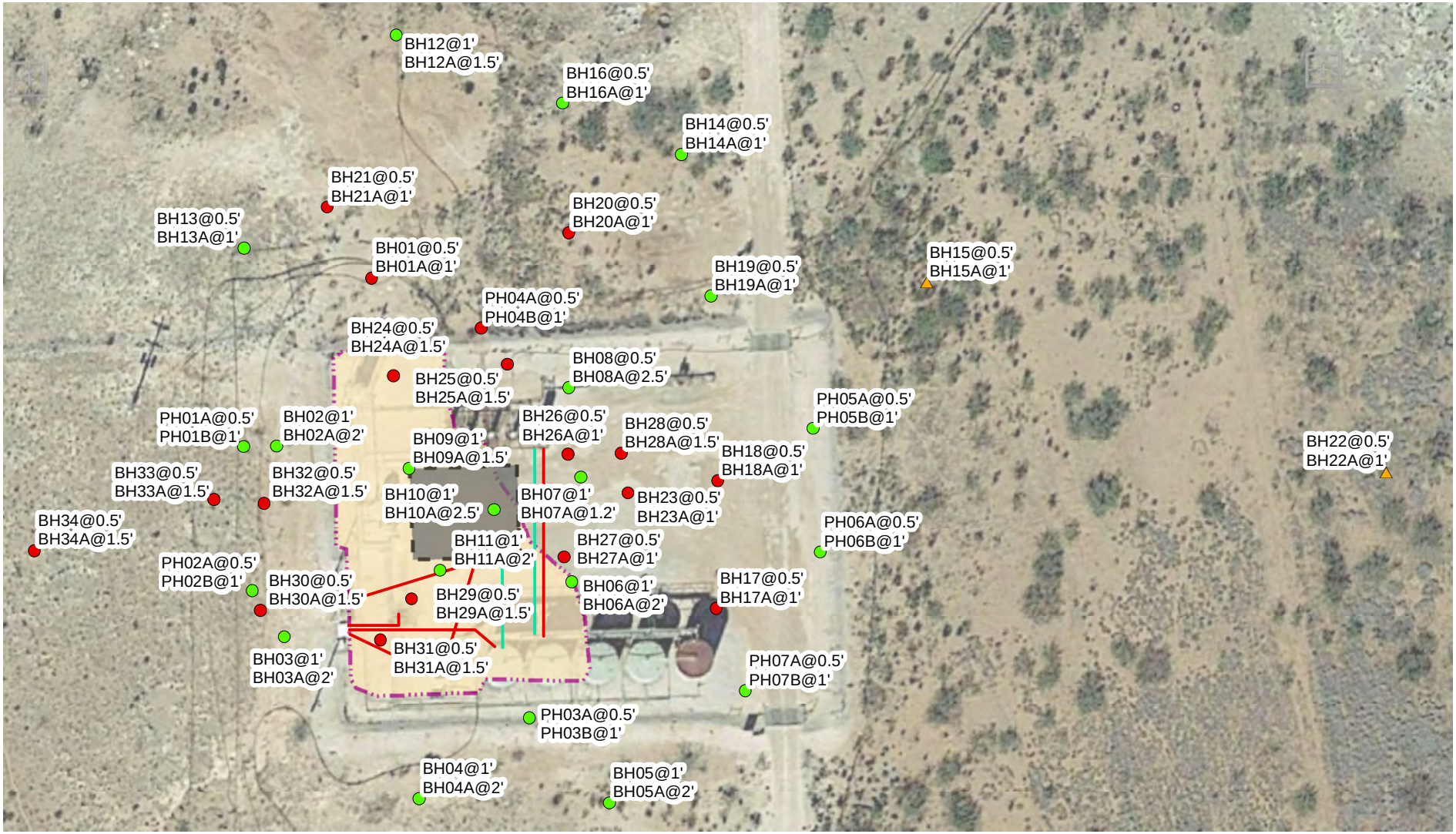
0 50 100
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NOTE: REMEDIATION PERMIT NUMBER 2RP-4958
INCIDENT NUMBER NMAP1825437863

FIGURE 2
2018 EXCAVATION SOIL SAMPLE LOCATIONS
REMUDA BASIN CENTRAL TANK BATTERY
UNIT F SEC 19 T23S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918152_REMUDA BAISN CENTRAL TANK BATTERY\012918152_FIG02_EXCAVATION_2018_2021.mxd



LEGEND

- BACKGROUND SOIL SAMPLE
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- ELECTRIC LINE
- PRODUCED WATER LINE
- RELEASE EXTENT
- EXCAVATION EXTENT

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBER 2RP-4958
INCIDENT NUMBER NMAP1825437863

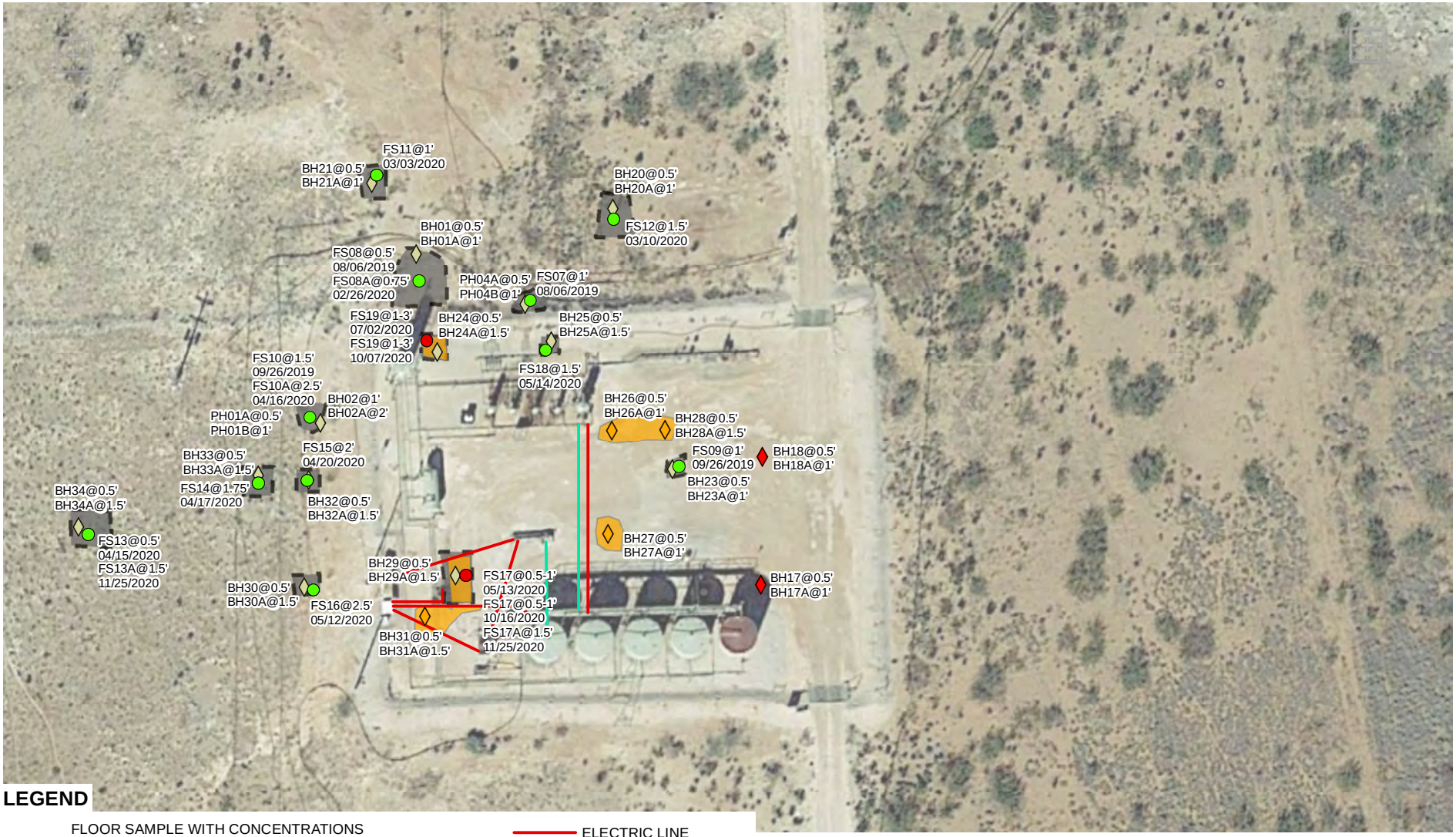
IMAGE COURTESY OF GOOGLE EARTH 2017

0 50 100
Feet

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FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
REMUDA BASIN CENTRAL TANK BATTERY
UNIT F SEC 19 T23S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012918152_REMUDA BAISN CENTRAL TANK BATTERY\012918152_FIG03_DELINEATION_2021.mxd



LEGEND

- FLOOR SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED
- DELINEATION SOIL SAMPLE THAT HAS BEEN TREATED WITH MICROBLAZE

- ELECTRIC LINE
- PRODUCED WATER LINE
- EXCAVATION EXTENT
- SOIL TREATED WITH MICROBLAZE

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

NOTE: REMEDIATION PERMIT NUMBER 2RP-4958
INCIDENT NUMBER NMAP1825437863

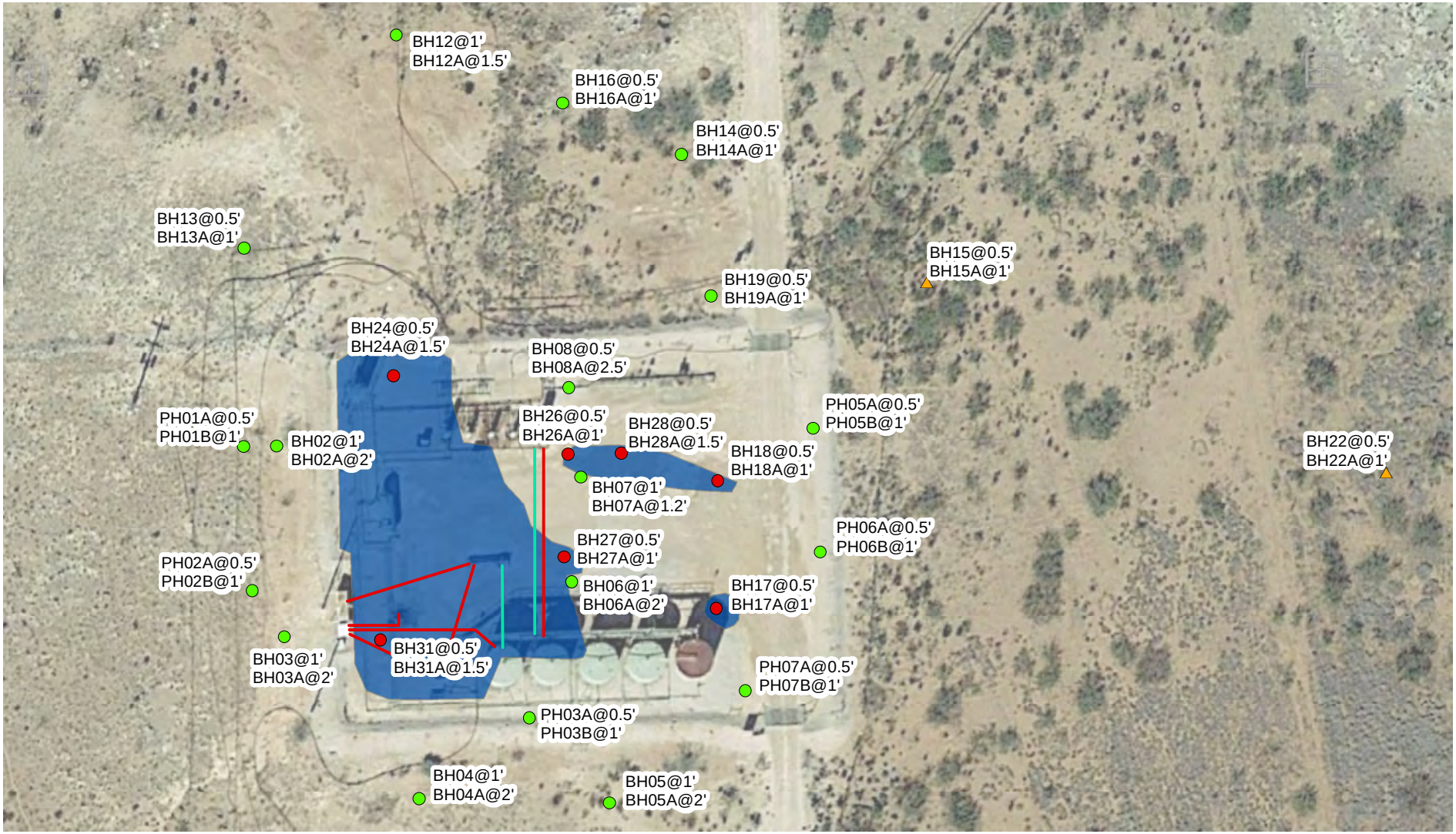
IMAGE COURTESY OF GOOGLE EARTH 2017

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Feet

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FIGURE 2
2019-2020 EXCAVATION SOIL SAMPLE LOCATIONS
REMUDA BASIN CENTRAL TANK BATTERY
UNIT F SEC 19 T23S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

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LEGEND

- BACKGROUND SOIL SAMPLE
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA AND BACKGROUND
- ELECTRIC LINE
- PRODUCED WATER LINE
- DEFERRAL AREA

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBER 2RP-4958
INCIDENT NUMBER NMAP1825437863

IMAGE COURTESY OF GOOGLE EARTH 2017

0 50 100
Feet

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FIGURE 5
DEFERRAL AREA
REMUDA BASIN CENTRAL TANK BATTERY
UNIT F SEC 19 T23S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

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TABLES

Table 1

Soil Analytical Results
Remuda Basin Central Tank Battery
Incident Number NMAP1825437863
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
									Background Chloride Concentration	**889**
Delineation Samples										
PH01A	11/12/2018	0.5	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	352
PH01B	11/12/2018	1	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	<4.97
PH02A	11/12/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	13.0
PH02B	11/12/2018	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	210
PH03A	11/13/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	1.75
PH03B	11/13/2018	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	6.19
PH04A	11/13/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	207
PH04B	11/13/2018	1	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	**6,600**
PH05A	11/13/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	101
PH05B	11/13/2018	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	221
PH06A	11/14/2018	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
PH06B	11/14/2018	1	<0.00198	<0.00198	<14.9	<14.9	<14.9	<14.9	<14.9	9.00
PH07A	11/14/2018	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	255
PH07B	11/14/2018	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	243
BH01	04/24/2019	0.5	<0.00201	<0.00201	<15.0	1,210	240	1,210	**1,450**	472
BH01A	04/24/2019	1	<0.00198	<0.00198	<15.0	332	98.1	332	**430**	584
BH02	04/23/2019	1	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	814
BH02A	04/23/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	426
BH03	04/23/2019	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	113
BH03A	04/23/2019	2	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	540

Table 1

Soil Analytical Results
Remuda Basin Central Tank Battery
Incident Number NMAP1825437863
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
									Background Chloride Concentration	**889**
BH04	04/23/2019	1	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	591
BH04A	04/23/2019	2	<0.00202	<0.00202	<14.9	<14.9	<14.9	<14.9	<14.9	387
BH05	04/23/2019	1	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	18.0
BH05A	04/23/2019	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	408
BH06	04/23/2019	1	<0.00200	<0.00200	<15.0	24.5	<15.0	25.0	25.0	699
BH06A	04/25/2019	2	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	519
BH07	04/24/2019	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	400
BH07A	04/24/2019	1.2	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	700
BH08	04/24/2019	0.5	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	41.2
BH08A	04/24/2019	2.5	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	31.4
BH09	04/24/2019	1	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	303
BH09A	04/24/2019	1.5	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	<14.9	301
BH10	04/24/2019	1	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	892
BH10A	04/24/2019	2.5	<0.00200	<0.00200	<15.0	24.3	<15.0	24.3	24.3	318
BH11	04/24/2019	1	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	210
BH11A	04/24/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	375
BH12	06/04/2019	1	<0.00201	<0.00201	<15.0	27.8	<15.0	27.8	27.8	443
BH12A	06/04/2019	1.5	<0.00200	<0.00200	<15.0	28.4	<15.0	28.4	28.4	473
BH13	06/17/2019	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	38.0
BH13A	06/17/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	154

Table 1

Soil Analytical Results
Remuda Basin Central Tank Battery
Incident Number NMAP1825437863
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
									Background Chloride Concentration	**889**
BH14	06/17/2019	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	16.8
BH14A	06/17/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	176
BH15	06/18/2019	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	303
BH15A	06/18/2019	1	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	889
BH16	06/18/2019	0.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	15.2
BH16A	06/18/2019	1	<0.00201	<0.00201	<15.0	27.1	<15.0	27.1	27.1	49.0
BH17	08/26/2019	0.5	<0.00199	<0.00199	<24.9	<24.9	<24.9	<24.9	<24.9	**1,960**
BH17A	08/26/2019	1	<0.00198	<0.00198	<25.0	25.1	<25.0	25	25.1	**5,370**
BH18	08/26/2019	0.5	<0.00200	<0.00200	<24.9	<24.9	<24.9	<24.9	<24.9	**2,890**
BH18A	08/26/2019	1	<0.00199	<0.00199	<24.9	44.8	<24.9	44.8	44.8	**7,580**
BH19	08/26/2019	0.5	<0.00201	<0.00201	<25.0	<25.0	<25.0	<25.0	<25.0	54.5
BH19A	08/26/2019	1	<0.00200	<0.00200	<24.9	<24.9	<24.9	<24.9	<24.9	16.5
BH20	08/26/2019	0.5	<0.00200	<0.00200	<24.9	<24.9	<24.9	<24.9	<24.9	**3,440**
BH20A	08/26/2019	1	<0.00198	<0.00198	<25.0	<25.0	<25.0	<25.0	<25.0	**2,710**
BH21	08/27/2019	0.5	<0.00200	<0.00200	<25.0	<25.0	<25.0	<25.0	<25.0	**2,650**
BH21A	08/27/2019	1	<0.00200	<0.00200	<25.0	<25.0	<25.0	<25.0	<25.0	**3,440**
BH22	08/26/2019	0.5	<0.00199	<0.00199	<25.0	<25.0	<25.0	<25.0	<25.0	14.1
BH22A	08/26/2019	1	<0.00199	<0.00199	<25.0	<25.0	<25.0	<25.0	<25.0	15.7
BH23	08/27/2019	0.5	<0.00200	<0.00200	<25.0	519	145	519	**664**	820
BH23A	08/27/2019	1	<0.00201	<0.00201	<24.9	430	122	430	**552**	**1,030**

Table 1

Soil Analytical Results
Remuda Basin Central Tank Battery
Incident Number NMAP1825437863
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
									Background Chloride Concentration	**889**
BH24	12/30/2019	0.5	<0.0200	0.925	566	16,200	1,920	16,800	**18,700**	140
BH24A	12/30/2019	1.5	<0.0167	0.559	86.0	2,260	235	2,350	**2,580**	138
BH25	12/30/2019	0.5	<0.00200	<0.00200	<50.1	1,300	204	1,300	**1,500**	114
BH25A	12/30/2019	1.5	<0.0200	0.0409	<50.0	267	60.5	267	**328**	73.7
BH26	12/30/2019	0.5	<0.00199	<0.00199	<50.1	114	93.4	114	**207**	**6,400**
BH26A	12/30/2019	1	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	**5,780**
BH27	12/30/2019	0.5	<0.00202	<0.00202	<50.0	665	144	665	**809**	**2,260**
BH27A	12/30/2019	1	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	327
BH28	12/30/2019	0.5	<0.00201	<0.00201	<50.1	91.0	52.4	91.0	**143**	**2,620**
BH28A	12/30/2019	1.5	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	556
BH29	12/30/2019	0.5	<0.0200	0.021	<249	16,000	1,740	16,000	**17,700**	**1,170**
BH29A	12/30/2019	1.5	<0.0200	0.0228	<251	6,700	785	6,700	**7,490**	**4,710**
BH30	12/30/2019	0.5	<0.00202	<0.00202	<50.3	175	120	175	**295**	604
BH30A	12/30/2019	1.5	<0.00200	<0.00200	<50.2	66.8	<50.2	66.8	66.8	429
BH31	12/30/2019	0.5	<0.00202	<0.00202	<50.2	136	99.9	136	**236**	**3,000**
BH31A	12/30/2019	1.5	<0.00202	<0.00202	<50.1	57.1	<50.1	57.1	57.1	**2,070**
BH32	12/30/2019	0.5	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	**3,300**
BH32A	12/30/2019	1.5	<0.00201	<0.00201	<49.9	72.3	70.9	72.3	**143**	865
BH33	12/30/2019	0.5	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	17.0
BH33A	12/30/2019	1.5	<0.00202	<0.00202	<50.0	70.0	59.8	70.0	**130**	<10.0

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Soil Analytical Results
Remuda Basin Central Tank Battery
Incident Number NMAP1825437863
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
									Background Chloride Concentration	**889**
BH34	12/30/2019	0.5	<0.00202	<0.00202	<50.3	1,430	165	1,430	**1,600**	330
BH34A	12/30/2019	1.5	<0.00200	<0.00200	<50.2	707	86.2	707	**793**	570
Excavation Floor Samples										
FS01	11/08/2018	3	<0.00198	<0.00198	<15.0	462	52.7	462	**515**	514
FS02	11/08/2018	3	<0.00202	<0.00202	<15.0	32.5	<15.0	32.5	32.5	86.9
FS03	11/09/2018	3	<0.00198	<0.00198	<15.0	20.5	<15.0	20.5	20.5	403
FS04	11/09/2018	3	<0.00200	<0.00200	<15.0	475	48.1	475	**523**	**1,420**
FS05	11/09/2018	3	<0.00199	<0.00199	<15.0	314	38.0	314	**352**	**1,990**
FS06	11/09/2018	6	<0.00200	<0.00200	<14.9	1,650	56.2	1,650	**1,710**	**1,020**
FS07	08/06/2019	1	<0.00198	0.00266	<15.0	<15.0	<15.0	<15.0	<15.0	209
FS08	08/06/2019	0.5	<0.00199	<0.00199	<15.0	17.3	<15.0	17.3	17.3	**1,150**
FS08A	02/26/2020	1	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	327
FS09	09/26/2019	1	<0.00100	<0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	887
FS10	09/26/2019	1.5	<0.00100	<0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	**2,040**
FS10A	04/16/2020	2.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	62.9
FS11	03/03/2020	1	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	260
FS12	03/10/2020	1.5	<0.00198	0.0129	<50.1	<50.1	<50.1	<50.1	<50.1	113

Table 1

Soil Analytical Results
Remuda Basin Central Tank Battery
Incident Number NMAP1825437863
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
									Background Chloride Concentration	**889**
FS13	04/15/2020	0.5	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	502
FS13A	11/25/2020	1.5	<0.00200	<0.002000	<50.2	<50.2	<50.2	<50.20	<50.20	49.2
FS14	04/17/2020	1.75	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	161
FS15	04/20/2020	2.0	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	426
FS16	05/12/2020	2.5	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	101
FS17	05/13/2020	0.5 - 1	<0.00234	0.293	277	9,560	1,000	9,840	**10,800**	**7,810**
FS17	10/16/2020	0.5 - 1	<0.0200	<0.0200	<251	8,620	1,490	8,620	**10,100**	**2,350**
FS17A	11/25/2020	1.5	<0.00199	<0.001990	<50.1	708	172	708.0	**880**	**8,070**
FS18	05/14/2020	1.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	146
FS19	07/02/2020	1 - 3	<0.0101	<0.0101	<49.8	2,830	353	2,830	**3,180**	450
FS19	10/07/2020	1 - 3	<0.00198	<0.00198	<250	1,280	273	1,280	**1,550**	516
SW01	11/09/2018	3	<0.00199	<0.00199	<15.0	845	91.6	845	**937**	464
SW02	11/09/2018	3	<0.00200	<0.00200	26.0	2,540	44.6	2,570	**2,610**	**4,090**
SW03	11/09/2018	3	<0.00200	<0.00200	<14.9	20.9	<14.9	20.9	20.9	824

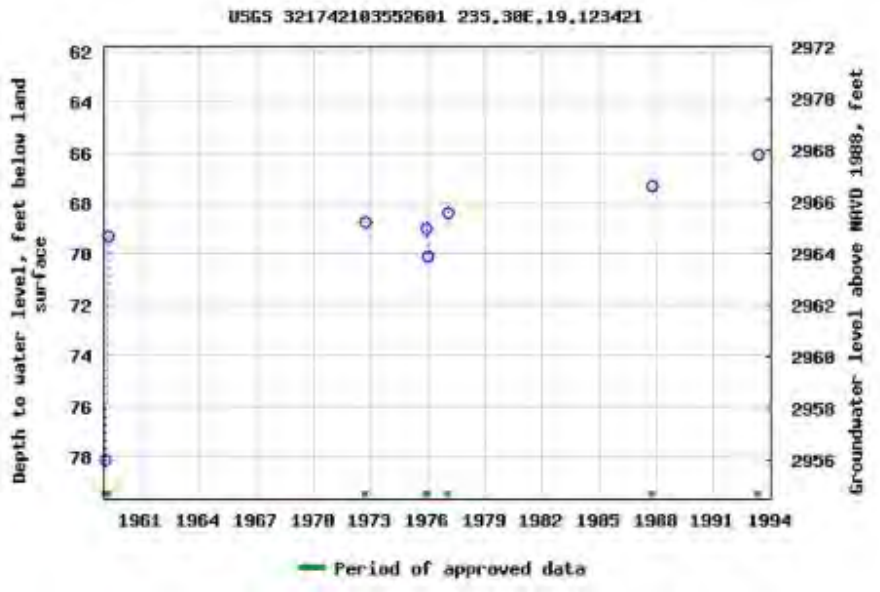
Table 1

Soil Analytical Results
Remuda Basin Central Tank Battery
Incident Number NMAP1825437863
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	**100**	**600**
									Background Chloride Concentration	**889**
SW04	11/09/2018	3	<0.00201	<0.00201	<15.0	171	24.6	171	**196**	**1,540**
SW05	11/09/2018	3	<0.00202	0.00321	<15.0	142	17.1	142	**159**	**4,180**
SW06	11/09/2018	3	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	**1,090**

ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - motor oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
Greyed data represents samples that were excavated

ATTACHMENT 1: REFERENCED WELL RECORDS



DESCRIPTION:

Latitude 32°17'42", Longitude 103°55'26" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 100 feet
Land surface altitude: 3,034 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-06	1993-05-06	8
Field/Lab water-quality samples	1972-09-20	1972-09-20	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	C 03478 POD1	3	2	1	21	23S	30E	604638	3573670

Driller License:		**Driller Company:**			
Driller Name:	JUSTIN MULLINS				
Drill Start Date:	06/07/2016	**Drill Finish Date:**	06/27/2016	**Plug Date:**	
Log File Date:	07/11/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	5 GPM
Casing Size:	6.00	**Depth Well:**	230 feet	**Depth Water:**	105 feet

Water Bearing Stratifications:	Top	Bottom	Description
	105	112	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	170	230

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.

ATTACHMENT 2: LITHOLOGIC / SOIL SAMPLE LOGS

Received by OCD: 12/2/2025 10:49:05 AM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH01	Date: 11/12/2018
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152
Logged By AB	Method: T.hoe
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID
Hole Diameter: 22"	Total Depth: 1'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	179.2	0.0	N	PH01A		0.5	SM	Rocky, silty sand. With red hue
D	179.2	0.0	N	PH01B		1	SM	Rocky, sity sand. With red hue

Released to Imaging: 2/10/2026 2:25:28 PM

Received by OCD: 12/2/2025 10:49:05 AM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH02	Date: 11/12/2018
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152
Logged By AB	Method: T.hoe
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID
Hole Diameter: 22"	Total Depth: 1'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	179.2	0.0	N	PH02A		0.5	SM	Rocky, silty sand. Brown
D	307.2	0.0	N	PH02B		1	SM	Rocky, silty sand. Red

Released to Imaging: 2/10/2026 2:25:28 PM

Received by OCD: 12/2/2025 10:49:05 AM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH03	Date: 11/13/2018
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By AB		Method:	T.hoe
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 22"	Total Depth: 1'

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	192.0	0.0	N	PH03A		0.5	SM	Silt. Dark Brown
D	192.0	0.0	N	PH03B		1	SM	Silt. Dark Brown

Released to Imaging: 2/10/2026 2:25:28 PM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH04	Date: 11/13/2018
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By AB		Method:	T.hoe
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 22"	Total Depth: 1'

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
M	179.2	0.0	N	PH04A		0.5	CL	Moist Clay. Gray
M	396.8	0.0	N	PH04B		1	CL	Moist Clay. Gray

Received by OCD: 12/2/2025 10:49:05 AM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH05	Date: 11/13/2018
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By AB		Method:	T.hoe
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 22"	Total Depth: 1'

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	192.0	0.0	N	PH05A		0.5	SM	Silty Sand. Dark Brown.
D	192.0	0.0	N	PH05B		1	SM	Silty Sand. Dark Brown.

Released to Imaging: 2/10/2026 2:25:28 PM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH06	Date: 11/14/2018
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By AB		Method:	T.hoe
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 22"	Total Depth: 1'

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	192.0	0.0	N	PH06A		0.5	GW	Gravely Sand
D	192.0	0.0	N	PH06B		1	GW	Gravely Sand

Received by OCD: 12/2/2025 10:49:05 AM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH07	Date: 11/14/2018
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By AB		Method:	T.hoe
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 22"	Total Depth: 1'

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	192.0	0.0	N	PH07A		0.5	GW	Gravely Sand
D	192.0	0.0	N	PH07B		1	GW	Gravely Sand

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WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH01	4/24/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	380	1.1	n	BH01	0.5'	0	SM	SAND, dry, brown-tan, trace caliche, no stain, no odor
dry	380	0.8	n	BH01A	1'			

Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH02	4/23/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	196	0.5	n	BH02	1'	0	SM	SAND, dry, brown-red, trace clay, trace caliche, no stain, no odor
dry	196	1.0	n	BH02A	2'			
								Auger Refusal
								Total Depth: 2 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH03	4/23/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<124	0.2	n	BH03	1'	0	CH	CLAY w/sand, dry, brown-red, trace caliche, no stain, no odor
dry	348	0.3	n	BH03A	2'			
								Auger Refusal
								Total Depth: 2 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH04	4/23/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	480	0.3	n	BH04	1'	0	CCHE	CALICHE, dry, white, trace sand
dry	268	0.5	n	BH04A	2'			
								Auger Refusal
								Total Depth: 2 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH05	4/23/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<124	0.8	n	BH05	1'	0	SM	SAND, dry, brown-red
dry	196	0.6	n	BH05A	2'			
								Auger Refusal
								Total Depth: 2 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH06	4/23/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	580	0.8	n	BH06	1'	0	SM	SAND w/caliche, dry, brown-tan
m	580	0.6	n	BH06A	2'			
								Auger Refusal
								Total Depth: 2 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH07	4/24/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

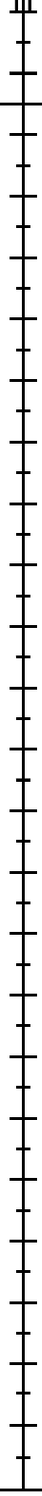
LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	308	0.4	n	BH07	1'	0	CCHE	CALICHE, dry, brown-pink, trace sand
dry	528	1.1	n	BH07A	1.5'			
								Auger Refusal
								Total Depth: 1.5 ft bgs



WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH08	4/24/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2.5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<124	1.6	n	BH08	0.5'	0	SM	SAND w/clay, dry, brown-tan
dry	<124	0.8	n		1.5'	2		
dry	<124	0.6	n	BH08A	2.5'			
								Auger Refusal

Total Depth: 2.5 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH09	4/24/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

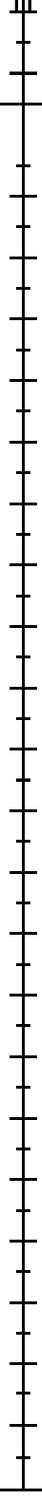
LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
m	232	2.3	n	BH09	0.5'	0	CCHE	CALICHE, moist, white
m	232	2.5	n	BH09A	1.5'			



Total Depth: 1.5 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH10	4/24/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2.5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	804	1.0	n	BH10	0.5'	0	CCHE	CALICHE, moist, brown-white, trace sand
						2		
dry	436	0.9	n	BH10A	2.5'			

Total Depth: 2.5 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH11	4/24/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	196	0.4	n	BH11	1'	0	CCHE	CALICHE, moist, brown-tan, trace sand
dry	348	0.4	n	BH11A	2'	2		

Total Depth: 2 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH12	6/4/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: RM	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
m	380	1.9	n	BH12	1'	0	CCHE	CALICHE, moist, brown-tan, trace sand
dry	483	2.3	n					
dry	483	0.8	n	BH12A	1.5'			

Total Depth: 1.5 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH13	6/17/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<124	0.6	n	BH13	0.5	0	GYP	GYPSUM, dry, light brown-tan, trace natural vegetation
dry	<124	0.8	n	BH13A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH14	6/17/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<124	0.2	n	BH14	0.5	0	SM	SAND, dry, reddish brown, fine-medium grain, trace silt
dry	294	0.2	n	BH14A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH15	6/17/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments: background sample

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	217	2.6	n	BH15	0.5	0	SM	SAND, dry, light brown, trace silt
dry	582	1.5	n	BH15A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH16	6/17/2019

Site Name: Remuda Basin Central Tank Battery

RP or Incident Number: NMAP1825437863

LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By:	Method:
BB	Hand Auger

Lat/Long:	Field Screening:	Hole Diameter:	Total Depth:
	Chloride, PID	3"	1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<112	1.1	n	BH16	0.5	0	SM	SAND, dry, light brown, trace silt
dry	<112	1.2	n	BH16A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH17	8/26/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	1,940	22.9	n	BH17	0.5	0	SM	SILTY SAND, dry, light brown, trace silt
dry	4,176	1.2	n	BH17A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH18	8/26/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	2,768	17.1	n	BH18	0.5	0	SM	SILTY SAND, dry, light brown
dry	4,524	13.6	n	BH18A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH19	8/26/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<128	8.7	n	BH19	0.5'	0	CH	CLAY w/sand, dry, light brown, cohesive, low plasticity, some vegetation
dry	<128	7.7	n	BH19A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH20	8/26/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	2,768	9.3	n	BH20	0.5'	0	S	SILTY SAND, dry, brown, some vegetation vegetation
dry	1,292	13.2	n	BH20A	1'			Auger Refusal

Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH21	8/26/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
m	2,328	12.3	n	BH21	0.5'	0	S	SILTY SAND, moist, white-tan
m	1,596	8.3	n	BH21A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH22	8/26/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:
Background Sample

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	<128	8.4	n	BH22	0.5'	0	S	SILTY SAND, moist, red-brown
dry	<112	23.4	n	BH22A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:	Date:
BH23	8/27/2019

Site Name: Remuda Basin Central Tank Battery
RP or Incident Number: NMAP1825437863
LTE Job Number: TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB	Method: Hand Auger

Lat/Long:	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 1'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
dry	1,148	32.1	n	BH23	0.5'	0	S	SILTY SAND, moist, red-brown
dry	1,148	22.1	n	BH23A	1'			
								Auger Refusal
								Total Depth: 1 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH24	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:
TD @ 1.5 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	BDL	100.4	N	BH24		0.5	SP	Brown Sand. No Odor.
D	BDL	100.4	N	BH24A		1.5	SW	Brown Sand. Gray Bedrock. Slight Odor. Refusal

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH25	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:
TD @ 1.5 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	BDL	1.3	N	BH25		0.5	SP	Brown Sand. Odor.
D	BDL	0.2	N	BH25A		1.5	SP	Brown Sand. No Odor.
						3		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH26	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.0'

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	3472.0	0.6	N	BH26		0.5	SP	Brown Sand. No odor.
D	1020.0	0.5	N	BH26A		1	SP	Brown Sand. No odor.

Received by OCD: 12/2/2025 10:49:05 AM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH27	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152
Logged By EN	Method: Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID
Hole Diameter: 3"	Total Depth: 1.0'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	1296.0	0.2	N	BH27		0.5	SP	Brown Sand. No odor.
D	275.0	0.1	N	BH27A		1	SP	Brown Sand. No odor.

Released to Imaging: 2/10/2026 2:25:28 PM

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH28	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:
TD @ 1.5 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	2189.0	0.1	N	BH28		0.5	SP	Sand. Brown/Tan. No odor.
D	523.0	0.4	N	BH28A		1.5	GW	Sand//Bedrock. Brown to tan. No odor
						3		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH29	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:
TD @ 1.5 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	2543.0	26.7	N	BH29		0.5	SW	Sand. Course to Fine. Brown. No odor.
D	3780.0	27.4	N	BH29A		1.5	SW	Sand. Course to Fine. Brown. No odor.
						3		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH30	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:
TD @ 1.5 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	636.0	1.2	N	BH30		0.5	SP	Sand. Tan. No odor.
D	410.0	0.6	N	BH30A		1.5	SP	Sand. Tan. No odor.
						3		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH31	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.0'

Comments:
TD @ 1.0 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	1296.0	0.7	N	BH31		0.5	GW	Sand/Bedrock. Tan. No odor.
D	1020.0	1.3	N	BH31A		1	GW	Sand/Bedrock. Tan. No odor.
						3		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH32	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:
TD @ 1.5 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	3780.0	0.2	N	BH32		0.5	SP	Sand. Tan. Trace Bedrock.
D	753.0	0.1	N	BH32A		1.5	SP	Sand. Tan. Trace Bedrock.
						3		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH33	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152
Logged By EN	Method: Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID
Hole Diameter: 3"	Total Depth: 1.5'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:
TD @ 1.5 ft

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	275.0	0	N	BH33		0.5	SP	Sand. Brown. No odor.
D	275.0	0.0	N	BH33		1.5	SP	Sand. Brown. No odor.
						3		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH34	Date: 12/30/2019
Site Name:	Remuda Basin Central Tank Battery
RP or Incident Number:	NMAP1825437863
WSP Job Number:	TE012918152

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Hand Auger
Lat/Long: 32.290595, -103.92319	Field Screening: Hatch Chloride Strips, PID	Hole Diameter: 3"	Total Depth: 1.5'

Comments:
TD @ 1.5 ft.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	523.0	0.2	N	BH34		0.5	SP	Sand. Trace Bedrock. Tan. No odor.
D	523.0	0.0	N	BH34		1.5	SP	Sand. Trace Bedrock. Tan. No odor.
						3		

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Remuda Basin Central Tank Battery Eddy County, New Mexico	NMAP1825437863

Photo No.	Date
1	Dec 30, 2020

Delineation sampling at BH24 facing southeast.



Photo No.	Date
2	May 11, 2020

Norther view of hydrovac excavation of delineation soil sample BH24. Note the competent bedrock encountered, proximity of production equipment and electrical line. Confirmation floor sample FS17 collected from this excavation.



PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Remuda Basin Central Tank Battery Eddy County, New Mexico	NMAP1825437863

Photo No.	Date
3	Sept. 21, 2020

View of open excavation following the application of MicroBlaze®. Note the competent bedrock encountered. Final confirmation sample collected is FS17A



Photo No.	Date
4	Sept. 21, 2020

View of open excavation following the application of MicroBlaze®. Note the competent bedrock encountered. Final confirmation sample collected FS19.



ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS

Analytical Report 601537

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin CTB

16-OCT-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

16-OCT-18

Project Manager: **Adrian Baker**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **601537**
Remuda Basin CTB
Project Address: Eddy, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 601537. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 601537 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	10-02-18 15:00	6 In	601537-001
SS02	S	10-02-18 15:15	6 In	601537-002
SS03	S	10-02-18 15:25	6 In	601537-003
SS04	S	10-02-18 15:40	6 In	601537-004

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID:
Work Order Number(s): *601537*

Report Date: *16-OCT-18*
Date Received: *10/05/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3066082 TPH by SW8015 Mod
Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 601537-003,601537-001.

Batch: LBA-3066385 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 601537-003.

Dilution due to poor internal resolution caused by matrix interference.

Received by OCD: 12/2/2025 10:49:05 AM

Certificate of Analysis Summary 601537

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:
Contact: Adrian Baker
Project Location: Eddy, NM

Date Received in Lab: Fri Oct-05-18 10:50 am
Report Date: 16-OCT-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	601537-001		601537-002		601537-003		601537-004					
	Field Id:	SS01		SS02		SS03		SS04					
	Depth:	6- In		6- In		6- In		6- In					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Oct-02-18 15:00		Oct-02-18 15:15		Oct-02-18 15:25		Oct-02-18 15:40					
BTEX by EPA 8021B	*Extracted:*	Oct-15-18 08:00		Oct-15-18 08:00		Oct-15-18 08:00		Oct-15-18 08:00					
	Analyzed:	Oct-15-18 12:51		Oct-15-18 12:29		Oct-15-18 13:12		Oct-15-18 12:08					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		0.568	0.505	<0.00199	0.00199	<0.101	0.101	<0.00200	0.00200				
Toluene		0.773	0.505	<0.00199	0.00199	0.175	0.101	<0.00200	0.00200				
Ethylbenzene		14.5	0.505	0.00221	0.00199	1.36	0.101	<0.00200	0.00200				
m,p-Xylenes		51.2	1.01	0.0120	0.00398	4.89	0.202	<0.00399	0.00399				
o-Xylene		21.5	0.505	0.00721	0.00199	1.83	0.101	<0.00200	0.00200				
Total Xylenes		72.7	0.505	0.0192	0.00199	6.72	0.101	<0.00200	0.00200				
Total BTEX		88.5	0.505	0.0214	0.00199	8.26	0.101	<0.00200	0.00200				
Inorganic Anions by EPA 300	*Extracted:*	Oct-10-18 10:00		Oct-10-18 10:00		Oct-10-18 10:00		Oct-10-18 10:00					
	Analyzed:	Oct-10-18 19:44		Oct-10-18 14:03		Oct-10-18 14:09		Oct-10-18 14:26					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		74.5	4.98	4190	99.2	2400	49.5	1020	50.0				
TPH by SW8015 Mod	*Extracted:*	Oct-10-18 17:00		Oct-10-18 17:00		Oct-10-18 17:00		Oct-10-18 17:00					
	Analyzed:	Oct-11-18 03:05		Oct-11-18 03:24		Oct-11-18 03:43		Oct-11-18 04:02					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		1710	74.9	91.4	74.7	262	74.9	<15.0	15.0				
Diesel Range Organics (DRO)		9230	74.9	4290	74.7	6740	74.9	<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		655	74.9	423	74.7	681	74.9	<15.0	15.0				
Total TPH		11600	74.9	4800	74.7	7680	74.9	<15.0	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Released to Imaging: 2/10/2026 2:25:28 PM

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	10.05.18 10.50
Lab Sample Id:	601537-001	Date Collected:	10.02.18 15.00	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	10.10.18 10.00	Basis:	Wet Weight
Seq Number:	3066067				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**74.5**	4.98	mg/kg	10.10.18 19.44		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	10.10.18 17.00	Basis:	Wet Weight
Seq Number:	3066082				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**1710**	74.9	mg/kg	10.11.18 03.05		5
Diesel Range Organics (DRO)	C10C28DRO	**9230**	74.9	mg/kg	10.11.18 03.05		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**655**	74.9	mg/kg	10.11.18 03.05		5
Total TPH	PHC635	**11600**	74.9	mg/kg	10.11.18 03.05		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	10.11.18 03.05	
o-Terphenyl	84-15-1	220	%	70-135	10.11.18 03.05	**

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	10.05.18 10.50
Lab Sample Id:	601537-001	Date Collected:	10.02.18 15.00	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.15.18 08.00	Basis:	Wet Weight
Seq Number:	3066385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.568**	0.505	mg/kg	10.15.18 12.51		250
Toluene	108-88-3	**0.773**	0.505	mg/kg	10.15.18 12.51		250
Ethylbenzene	100-41-4	**14.5**	0.505	mg/kg	10.15.18 12.51		250
m,p-Xylenes	179601-23-1	**51.2**	1.01	mg/kg	10.15.18 12.51		250
o-Xylene	95-47-6	**21.5**	0.505	mg/kg	10.15.18 12.51		250
Total Xylenes	1330-20-7	**72.7**	0.505	mg/kg	10.15.18 12.51		250
Total BTEX		**88.5**	0.505	mg/kg	10.15.18 12.51		250

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	10.15.18 12.51	
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.15.18 12.51	

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	10.05.18 10.50
Lab Sample Id:	601537-002	Date Collected:	10.02.18 15.15	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	10.10.18 10.00	Basis:	Wet Weight
Seq Number:	3066067				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4190**	99.2	mg/kg	10.10.18 14.03		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	10.10.18 17.00	Basis:	Wet Weight
Seq Number:	3066082				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**91.4**	74.7	mg/kg	10.11.18 03.24		5
Diesel Range Organics (DRO)	C10C28DRO	**4290**	74.7	mg/kg	10.11.18 03.24		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**423**	74.7	mg/kg	10.11.18 03.24		5
Total TPH	PHC635	**4800**	74.7	mg/kg	10.11.18 03.24		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.11.18 03.24	
o-Terphenyl	84-15-1	101	%	70-135	10.11.18 03.24	

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	10.05.18 10.50
Lab Sample Id:	601537-002	Date Collected:	10.02.18 15.15	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.15.18 08.00	Basis:	Wet Weight
Seq Number:	3066385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.15.18 12.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.15.18 12.29	U	1
Ethylbenzene	100-41-4	**0.00221**	0.00199	mg/kg	10.15.18 12.29		1
m,p-Xylenes	179601-23-1	**0.0120**	0.00398	mg/kg	10.15.18 12.29		1
o-Xylene	95-47-6	**0.00721**	0.00199	mg/kg	10.15.18 12.29		1
Total Xylenes	1330-20-7	**0.0192**	0.00199	mg/kg	10.15.18 12.29		1
Total BTEX		**0.0214**	0.00199	mg/kg	10.15.18 12.29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.15.18 12.29	
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.15.18 12.29	

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **SS03** Matrix: Soil Date Received:10.05.18 10.50

Lab Sample Id: 601537-003 Date Collected: 10.02.18 15.25 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 10.10.18 10.00 Basis: Wet Weight

Seq Number: 3066067

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2400**	49.5	mg/kg	10.10.18 14.09		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 10.10.18 17.00 Basis: Wet Weight

Seq Number: 3066082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**262**	74.9	mg/kg	10.11.18 03.43		5
Diesel Range Organics (DRO)	C10C28DRO	**6740**	74.9	mg/kg	10.11.18 03.43		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**681**	74.9	mg/kg	10.11.18 03.43		5
Total TPH	PHC635	**7680**	74.9	mg/kg	10.11.18 03.43		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.11.18 03.43	
o-Terphenyl	84-15-1	152	%	70-135	10.11.18 03.43	**

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	10.05.18 10.50
Lab Sample Id:	601537-003	Date Collected:	10.02.18 15.25	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.15.18 08.00	Basis:	Wet Weight
Seq Number:	3066385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.101	0.101	mg/kg	10.15.18 13.12	U	50
Toluene	108-88-3	**0.175**	0.101	mg/kg	10.15.18 13.12		50
Ethylbenzene	100-41-4	**1.36**	0.101	mg/kg	10.15.18 13.12		50
m,p-Xylenes	179601-23-1	**4.89**	0.202	mg/kg	10.15.18 13.12		50
o-Xylene	95-47-6	**1.83**	0.101	mg/kg	10.15.18 13.12		50
Total Xylenes	1330-20-7	**6.72**	0.101	mg/kg	10.15.18 13.12		50
Total BTEX		**8.26**	0.101	mg/kg	10.15.18 13.12		50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	127	%	70-130	10.15.18 13.12	
4-Bromofluorobenzene	460-00-4	135	%	70-130	10.15.18 13.12	**

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **SS04** Matrix: Soil Date Received:10.05.18 10.50

Lab Sample Id: 601537-004 Date Collected: 10.02.18 15.40 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 10.10.18 10.00 Basis: Wet Weight

Seq Number: 3066067

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1020**	50.0	mg/kg	10.10.18 14.26		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 10.10.18 17.00 Basis: Wet Weight

Seq Number: 3066082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.11.18 04.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	10.11.18 04.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	10.11.18 04.02	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	10.11.18 04.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	10.11.18 04.02	
o-Terphenyl	84-15-1	90	%	70-135	10.11.18 04.02	

Certificate of Analytical Results 601537

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	10.05.18 10.50
Lab Sample Id:	601537-004	Date Collected:	10.02.18 15.40	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.15.18 08.00	Basis:	Wet Weight
Seq Number:	3066385				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.15.18 12.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.15.18 12.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.15.18 12.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.15.18 12.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.15.18 12.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.15.18 12.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.15.18 12.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.15.18 12.08	
1,4-Difluorobenzene	540-36-3	89	%	70-130	10.15.18 12.08	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 601537

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3066067 Matrix: Solid Date Prep: 10.10.18
MB Sample Id: 7663867-1-BLK LCS Sample Id: 7663867-1-BKS LCSD Sample Id: 7663867-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	252	101	253	101	90-110	0	20	mg/kg	10.10.18 13:18	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3066067 Matrix: Soil Date Prep: 10.10.18
Parent Sample Id: 601591-001 MS Sample Id: 601591-001 S MSD Sample Id: 601591-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	741	249	958	87	959	88	90-110	0	20	mg/kg	10.10.18 13:35	X

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3066067 Matrix: Soil Date Prep: 10.10.18
Parent Sample Id: 601594-001 MS Sample Id: 601594-001 S MSD Sample Id: 601594-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.4	248	263	102	263	102	90-110	0	20	mg/kg	10.10.18 15:00	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3066082 Matrix: Solid Date Prep: 10.10.18
MB Sample Id: 7663969-1-BLK LCS Sample Id: 7663969-1-BKS LCSD Sample Id: 7663969-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	909	91	1000	100	70-135	10	20	mg/kg	10.10.18 20:34	
Diesel Range Organics (DRO)	<8.13	1000	1050	105	1120	112	70-135	6	20	mg/kg	10.10.18 20:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		127		130		70-135	%	10.10.18 20:34
o-Terphenyl	104		121		115		70-135	%	10.10.18 20:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 601537

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3066082 | Matrix: Soil | Date Prep: 10.10.18
Parent Sample Id: 601546-001 | MS Sample Id: 601546-001 S | MSD Sample Id: 601546-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	12.0	1000	841	83	943	93	70-135	11	20	mg/kg	10.10.18 21:30	
Diesel Range Organics (DRO)	11.3	1000	946	93	1080	107	70-135	13	20	mg/kg	10.10.18 21:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		115		70-135	%	10.10.18 21:30
o-Terphenyl	89		98		70-135	%	10.10.18 21:30

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3066385 | Matrix: Solid | Date Prep: 10.15.18
MB Sample Id: 7664177-1-BLK | LCS Sample Id: 7664177-1-BKS | LCSD Sample Id: 7664177-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.125	125	0.116	116	70-130	7	35	mg/kg	10.15.18 07:53	
Toluene	<0.00200	0.0998	0.108	108	0.103	103	70-130	5	35	mg/kg	10.15.18 07:53	
Ethylbenzene	<0.00200	0.0998	0.123	123	0.115	115	70-130	7	35	mg/kg	10.15.18 07:53	
m,p-Xylenes	<0.00399	0.200	0.231	116	0.236	117	70-130	2	35	mg/kg	10.15.18 07:53	
o-Xylene	<0.00200	0.0998	0.122	122	0.114	114	70-130	7	35	mg/kg	10.15.18 07:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		93		84		70-130	%	10.15.18 07:53
4-Bromofluorobenzene	101		109		94		70-130	%	10.15.18 07:53

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3066385 | Matrix: Soil | Date Prep: 10.15.18
Parent Sample Id: 601718-001 | MS Sample Id: 601718-001 S | MSD Sample Id: 601718-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0931	93	0.101	100	70-130	8	35	mg/kg	10.15.18 08:35	
Toluene	<0.00200	0.100	0.0958	96	0.0912	90	70-130	5	35	mg/kg	10.15.18 08:35	
Ethylbenzene	<0.00200	0.100	0.112	112	0.102	101	70-130	9	35	mg/kg	10.15.18 08:35	
m,p-Xylenes	<0.00401	0.200	0.236	118	0.207	103	70-130	13	35	mg/kg	10.15.18 08:35	
o-Xylene	<0.00200	0.100	0.109	109	0.0995	99	70-130	9	35	mg/kg	10.15.18 08:35	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	120		81		70-130	%	10.15.18 08:35
4-Bromofluorobenzene	96		97		70-130	%	10.15.18 08:35

MS/MSD Percent Recovery | [D] = 100*(C-A) / B | LCS = Laboratory Control Sample | MS = Matrix Spike
Relative Percent Difference | RPD = 200* | (C-E) / (C+E) | | A = Parent Result | B = Spike Added
LCS/LCSD Recovery | [D] = 100 * (C) / [B] | C = MS/LCS Result | D = MSD/LCSD % Rec
Log Difference | Log Diff. = Log(Sample Duplicate) - Log(Original Sample) | E = MSD/LCSD Result

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XENCO LABORATORIES

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CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 001537

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office
Company Address: 3300 N "A" St. Building 1 unit 103 Midland, TX 79705
Email: abaker@ltenv.com Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name L. Lambach

Project Information

Project Name/Number: Remuda Basin CTB
Project Location: EDDY NM
Invoice To: XTO Energy - Kyle Littrell
PO Number:

Analytical Information

BTEX (only BTEX) 8021
TPH (DRO, GRO, MRO) 8015
Chloride (300.0)

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH	Chloride	Field Comments
1	SS01	6"	10/02	15:00	S	1								X	X	X	X	
2	SS02	6"	↓	15:15	S	1								X	X	X	X	
3	SS03	6"		15:25	S	1								X	X	X	X	
4	SS04	6"		15:40	S	1								X	X	X	X	
5																		
6																		
7																		
8																		
9																		
10																		

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [X] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking # 773402815025

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		10/04/24 6:30		2	10/4 16:30	2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice: X

Cooler Temp: 4 | Thermo. Corr. Factor: 1.0

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 12/2/2025 10:49:05 AM
Final 1.000
Page 17 of 18
Released to Imaging: 2/10/2026 2:25:28 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/05/2018 10:50:00 AM

Work Order #: 601537

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Katie Lowe Date: 10/05/2018

Checklist reviewed by: Jessica Kramer Date: 10/05/2018

Jessica Kramer

Analytical Report 605309

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin CTB

15-NOV-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

15-NOV-18

Project Manager: **Adrian Baker**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **605309**
Remuda Basin CTB
Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 605309. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 605309 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	11-08-18 11:18	3	605309-001
FS02	S	11-08-18 11:35	3	605309-002
SW01	S	11-09-18 08:32	3	605309-003
SW02	S	11-09-18 08:37	3	605309-004
SW03	S	11-09-18 09:26	3	605309-005
FS03	S	11-09-18 09:27	3	605309-006
FS04	S	11-09-18 09:38	3	605309-007
SW04	S	11-09-18 15:35	3	605309-008
SW05	S	11-09-18 15:36	3	605309-009
SW06	S	11-09-18 15:38	3	605309-010
FS05	S	11-09-18 15:40	3	605309-011
FS06	S	11-09-18 15:41	6	605309-012
FS01	S	11-08-18 11:18	3	Not Analyzed
FS01	S	11-08-18 11:18	3	Not Analyzed

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID:
Work Order Number(s): *605309*

Report Date: *15-NOV-18*
Date Received: *11/13/2018*

Sample receipt non conformances and comments:

Per clients email request, corrected sample names for sample 001,002,006,007,011, and 012. New Version Generated. JKR 11/14/18
Per clients email request, additional sample name corrections for samples 003, 004, 005, 008, 009, 010. New version generated. JKR 11/15/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3069560 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 605309-002.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 605309-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 605309-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Received by OCD: 12/2/2025 10:49:05 AM

Certificate of Analysis Summary 605309

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:
Contact: Adrian Baker
Project Location: Carlsbad, NM

Date Received in Lab: Tue Nov-13-18 01:55 pm
Report Date: 15-NOV-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	605309-001		605309-002		605309-003		605309-004		605309-005		605309-006	
	Field Id:	FS01		FS02		SW01		SW02		SW03		FS03	
	Depth:	3-		3-		3-		3-		3-		3-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-08-18 11:18		Nov-08-18 11:35		Nov-09-18 08:32		Nov-09-18 08:37		Nov-09-18 09:26		Nov-09-18 09:27	
BTEX by EPA 8021B	*Extracted:*	Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15	
	Analyzed:	Nov-13-18 19:26		Nov-13-18 19:47		Nov-13-18 20:09		Nov-13-18 20:40		Nov-13-18 21:15		Nov-13-18 23:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00397	0.00397	<0.00403	0.00403	<0.00398	0.00398	<0.00399	0.00399	<0.00401	0.00401	<0.00396	0.00396
o-Xylene		<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00198	0.00198	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Inorganic Anions by EPA 300	*Extracted:*	Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30	
	Analyzed:	Nov-13-18 18:25		Nov-14-18 10:07		Nov-13-18 18:36		Nov-13-18 18:41		Nov-13-18 18:57		Nov-13-18 19:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		514	49.8	86.9	4.95	464	49.6	4090	99.2	824	49.5	403	49.5
TPH by SW8015 Mod	*Extracted:*	Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00	
	Analyzed:	Nov-13-18 16:41		Nov-13-18 18:34		Nov-13-18 18:52		Nov-14-18 08:29		Nov-13-18 19:30		Nov-13-18 19:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	26.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		462	15.0	32.5	15.0	845	15.0	2540	15.0	20.9	14.9	20.5	15.0
Motor Oil Range Hydrocarbons (MRO)		52.7	15.0	<15.0	15.0	91.6	15.0	44.6	15.0	<14.9	14.9	<15.0	15.0
Total TPH		515	15.0	32.5	15.0	937	15.0	2610	15.0	20.9	14.9	20.5	15.0

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Version: 1.%

Jessica Kramer
Project Assistant

Released to Imaging: 2/10/2026 2:25:28 PM

Certificate of Analysis Summary 605309

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:
Contact: Adrian Baker
Project Location: Carlsbad, NM

Date Received in Lab: Tue Nov-13-18 01:55 pm
Report Date: 15-NOV-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	605309-007		605309-008		605309-009		605309-010		605309-011		605309-012	
	Field Id:	FS04		SW04		SW05		SW06		FS05		FS06	
	Depth:	3-		3-		3-		3-		3-		6-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-09-18 09:38		Nov-09-18 15:35		Nov-09-18 15:36		Nov-09-18 15:38		Nov-09-18 15:40		Nov-09-18 15:41	
BTEX by EPA 8021B	*Extracted:*	Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15		Nov-13-18 17:15	
	Analyzed:	Nov-14-18 00:04		Nov-14-18 00:54		Nov-14-18 01:21		Nov-14-18 01:50		Nov-14-18 03:15		Nov-14-18 03:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00402	0.00402	<0.00404	0.00404	<0.00398	0.00398	<0.00398	0.00398	<0.00401	0.00401
o-Xylene		<0.00200	0.00200	<0.00201	0.00201	0.00321	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00201	0.00201	0.00321	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00201	0.00201	0.00321	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200
Inorganic Anions by EPA 300	*Extracted:*	Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30		Nov-13-18 16:30	
	Analyzed:	Nov-13-18 19:08		Nov-13-18 19:13		Nov-13-18 19:18		Nov-13-18 19:39		Nov-13-18 19:45		Nov-13-18 20:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1420	50.0	1540	100	4180	99.2	1090	49.5	1990	99.0	1020	49.5
TPH by SW8015 Mod	*Extracted:*	Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00		Nov-13-18 15:00	
	Analyzed:	Nov-13-18 20:08		Nov-13-18 20:28		Nov-13-18 20:47		Nov-13-18 21:06		Nov-13-18 22:04		Nov-13-18 22:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		475	15.0	171	15.0	142	15.0	<15.0	15.0	314	15.0	1650	14.9
Motor Oil Range Hydrocarbons (MRO)		48.1	15.0	24.6	15.0	17.1	15.0	<15.0	15.0	38.0	15.0	56.2	14.9
Total TPH		523	15.0	196	15.0	159	15.0	<15.0	15.0	352	15.0	1710	14.9

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Jessica Kramer
Project Assistant

Final 1.002

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-001	Date Collected:	11.08.18 11.18	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**514**	49.8	mg/kg	11.13.18 18.25		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 16.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	**462**	15.0	mg/kg	11.13.18 16.41		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**52.7**	15.0	mg/kg	11.13.18 16.41		1
Total TPH	PHC635	**515**	15.0	mg/kg	11.13.18 16.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.13.18 16.41	
o-Terphenyl	84-15-1	93	%	70-135	11.13.18 16.41	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-001	Date Collected:	11.08.18 11.18	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.18 19.26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.18 19.26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.18 19.26	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.13.18 19.26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.18 19.26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.18 19.26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.18 19.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	124	%	70-130	11.13.18 19.26	
4-Bromofluorobenzene	460-00-4	71	%	70-130	11.13.18 19.26	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-002	Date Collected:	11.08.18 11.35	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**86.9**	4.95	mg/kg	11.14.18 10.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 18.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**32.5**	15.0	mg/kg	11.13.18 18.34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.13.18 18.34	U	1
Total TPH	PHC635	**32.5**	15.0	mg/kg	11.13.18 18.34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	11.13.18 18.34	
o-Terphenyl	84-15-1	92	%	70-135	11.13.18 18.34	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-002	Date Collected:	11.08.18 11.35	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.13.18 19.47	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.13.18 19.47	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.13.18 19.47	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.13.18 19.47	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.13.18 19.47	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.13.18 19.47	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.13.18 19.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	11.13.18 19.47	
4-Bromofluorobenzene	460-00-4	67	%	70-130	11.13.18 19.47	**

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-003	Date Collected:	11.09.18 08.32	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**464**	49.6	mg/kg	11.13.18 18.36		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 18.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	**845**	15.0	mg/kg	11.13.18 18.52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**91.6**	15.0	mg/kg	11.13.18 18.52		1
Total TPH	PHC635	**937**	15.0	mg/kg	11.13.18 18.52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.13.18 18.52	
o-Terphenyl	84-15-1	105	%	70-135	11.13.18 18.52	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-003	Date Collected:	11.09.18 08.32	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.13.18 20.09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.13.18 20.09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.13.18 20.09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.13.18 20.09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.13.18 20.09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.13.18 20.09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.13.18 20.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	70	%	70-130	11.13.18 20.09	
1,4-Difluorobenzene	540-36-3	97	%	70-130	11.13.18 20.09	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-004	Date Collected:	11.09.18 08.37	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4090**	99.2	mg/kg	11.13.18 18.41		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**26.0**	15.0	mg/kg	11.14.18 08.29		1
Diesel Range Organics (DRO)	C10C28DRO	**2540**	15.0	mg/kg	11.14.18 08.29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**44.6**	15.0	mg/kg	11.14.18 08.29		1
Total TPH	PHC635	**2610**	15.0	mg/kg	11.14.18 08.29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	11.14.18 08.29	
o-Terphenyl	84-15-1	108	%	70-135	11.14.18 08.29	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-004	Date Collected:	11.09.18 08.37	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.18 20.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.18 20.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.18 20.40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.13.18 20.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.18 20.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.18 20.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.18 20.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	77	%	70-130	11.13.18 20.40	
1,4-Difluorobenzene	540-36-3	118	%	70-130	11.13.18 20.40	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-005	Date Collected:	11.09.18 09.26	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**824**	49.5	mg/kg	11.13.18 18.57		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	11.13.18 19.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	**20.9**	14.9	mg/kg	11.13.18 19.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	11.13.18 19.30	U	1
Total TPH	PHC635	**20.9**	14.9	mg/kg	11.13.18 19.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.13.18 19.30	
o-Terphenyl	84-15-1	92	%	70-135	11.13.18 19.30	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-005	Date Collected:	11.09.18 09.26	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.13.18 21.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.13.18 21.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.13.18 21.15	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.13.18 21.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.13.18 21.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.13.18 21.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.13.18 21.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.13.18 21.15	
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.13.18 21.15	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-006	Date Collected:	11.09.18 09.27	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**403**	49.5	mg/kg	11.13.18 19.02		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 19.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**20.5**	15.0	mg/kg	11.13.18 19.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.13.18 19.49	U	1
Total TPH	PHC635	**20.5**	15.0	mg/kg	11.13.18 19.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.13.18 19.49	
o-Terphenyl	84-15-1	92	%	70-135	11.13.18 19.49	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-006	Date Collected:	11.09.18 09.27	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.13.18 23.21	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.13.18 23.21	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.13.18 23.21	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.13.18 23.21	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.13.18 23.21	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.13.18 23.21	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.13.18 23.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	72	%	70-130	11.13.18 23.21	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.13.18 23.21	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-007	Date Collected:	11.09.18 09.38	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1420**	50.0	mg/kg	11.13.18 19.08		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 20.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	**475**	15.0	mg/kg	11.13.18 20.08		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**48.1**	15.0	mg/kg	11.13.18 20.08		1
Total TPH	PHC635	**523**	15.0	mg/kg	11.13.18 20.08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	11.13.18 20.08	
o-Terphenyl	84-15-1	94	%	70-135	11.13.18 20.08	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-007	Date Collected:	11.09.18 09.38	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.14.18 00.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.14.18 00.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.14.18 00.04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.14.18 00.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.14.18 00.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.14.18 00.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.14.18 00.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	74	%	70-130	11.14.18 00.04	
1,4-Difluorobenzene	540-36-3	121	%	70-130	11.14.18 00.04	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **SW04** Matrix: Soil Date Received:11.13.18 13.55

Lab Sample Id: 605309-008 Date Collected: 11.09.18 15.35 Sample Depth: 3

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.13.18 16.30 Basis: Wet Weight

Seq Number: 3069555

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1540**	100	mg/kg	11.13.18 19.13		20

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 11.13.18 15.00 Basis: Wet Weight

Seq Number: 3069549

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 20.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	**171**	15.0	mg/kg	11.13.18 20.28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**24.6**	15.0	mg/kg	11.13.18 20.28		1
Total TPH	PHC635	**196**	15.0	mg/kg	11.13.18 20.28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	11.13.18 20.28	
o-Terphenyl	84-15-1	94	%	70-135	11.13.18 20.28	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-008	Date Collected:	11.09.18 15.35	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.14.18 00.54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.14.18 00.54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.14.18 00.54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.14.18 00.54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.14.18 00.54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.14.18 00.54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.14.18 00.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.14.18 00.54	
4-Bromofluorobenzene	460-00-4	80	%	70-130	11.14.18 00.54	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW05**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-009	Date Collected:	11.09.18 15.36	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4180**	99.2	mg/kg	11.13.18 19.18		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 20.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	**142**	15.0	mg/kg	11.13.18 20.47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**17.1**	15.0	mg/kg	11.13.18 20.47		1
Total TPH	PHC635	**159**	15.0	mg/kg	11.13.18 20.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	11.13.18 20.47	
o-Terphenyl	84-15-1	89	%	70-135	11.13.18 20.47	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW05**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-009	Date Collected:	11.09.18 15.36	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.14.18 01.21	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.14.18 01.21	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.14.18 01.21	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	11.14.18 01.21	U	1
o-Xylene	95-47-6	**0.00321**	0.00202	mg/kg	11.14.18 01.21		1
Total Xylenes	1330-20-7	**0.00321**	0.00202	mg/kg	11.14.18 01.21		1
Total BTEX		**0.00321**	0.00202	mg/kg	11.14.18 01.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	126	%	70-130	11.14.18 01.21	
4-Bromofluorobenzene	460-00-4	79	%	70-130	11.14.18 01.21	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-010	Date Collected:	11.09.18 15.38	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1090**	49.5	mg/kg	11.13.18 19.39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 21.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.13.18 21.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.13.18 21.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.13.18 21.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	11.13.18 21.06	
o-Terphenyl	84-15-1	88	%	70-135	11.13.18 21.06	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-010	Date Collected:	11.09.18 15.38	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.14.18 01.50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.14.18 01.50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.14.18 01.50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.14.18 01.50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.14.18 01.50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.14.18 01.50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.14.18 01.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	11.14.18 01.50	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.14.18 01.50	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-011	Date Collected:	11.09.18 15.40	Sample Depth:	3

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1990**	99.0	mg/kg	11.13.18 19.45		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.13.18 22.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	**314**	15.0	mg/kg	11.13.18 22.04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**38.0**	15.0	mg/kg	11.13.18 22.04		1
Total TPH	PHC635	**352**	15.0	mg/kg	11.13.18 22.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.13.18 22.04	
o-Terphenyl	84-15-1	92	%	70-135	11.13.18 22.04	

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LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-011	Date Collected:	11.09.18 15.40	Sample Depth:	3
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.14.18 03.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.14.18 03.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.14.18 03.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.14.18 03.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.14.18 03.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.14.18 03.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.14.18 03.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	73	%	70-130	11.14.18 03.15	
1,4-Difluorobenzene	540-36-3	116	%	70-130	11.14.18 03.15	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-012	Date Collected:	11.09.18 15.41	Sample Depth:	6

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.13.18 16.30	Basis:	Wet Weight
Seq Number:	3069555				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1020**	49.5	mg/kg	11.13.18 20.01		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.13.18 15.00	Basis:	Wet Weight
Seq Number:	3069549				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	11.13.18 22.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1650**	14.9	mg/kg	11.13.18 22.24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**56.2**	14.9	mg/kg	11.13.18 22.24		1
Total TPH	PHC635	**1710**	14.9	mg/kg	11.13.18 22.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	11.13.18 22.24	
o-Terphenyl	84-15-1	108	%	70-135	11.13.18 22.24	

Certificate of Analytical Results 605309

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	11.13.18 13.55
Lab Sample Id:	605309-012	Date Collected:	11.09.18 15.41	Sample Depth:	6
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.13.18 17.15	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.14.18 03.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.14.18 03.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.14.18 03.41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.14.18 03.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.14.18 03.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.14.18 03.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.14.18 03.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	124	%	70-130	11.14.18 03.41	
4-Bromofluorobenzene	460-00-4	79	%	70-130	11.14.18 03.41	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 605309

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069555 Matrix: Solid Date Prep: 11.13.18
MB Sample Id: 7666092-1-BLK LCS Sample Id: 7666092-1-BKS LCSD Sample Id: 7666092-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	255	102	90-110	0	20	mg/kg	11.13.18 17:59	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069555 Matrix: Soil Date Prep: 11.13.18
Parent Sample Id: 605310-002 MS Sample Id: 605310-002 S MSD Sample Id: 605310-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	43.7	250	306	105	309	106	90-110	1	20	mg/kg	11.13.18 18:15	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069555 Matrix: Soil Date Prep: 11.13.18
Parent Sample Id: 605310-003 MS Sample Id: 605310-003 S MSD Sample Id: 605310-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	130	250	363	93	360	92	90-110	1	20	mg/kg	11.13.18 19:29	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3069549 Matrix: Solid Date Prep: 11.13.18
MB Sample Id: 7666090-1-BLK LCS Sample Id: 7666090-1-BKS LCSD Sample Id: 7666090-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	938	94	959	96	70-135	2	20	mg/kg	11.13.18 16:04	
Diesel Range Organics (DRO)	<8.13	1000	988	99	1010	101	70-135	2	20	mg/kg	11.13.18 16:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		123		126		70-135	%	11.13.18 16:04
o-Terphenyl	102		99		103		70-135	%	11.13.18 16:04

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 605309

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3069549 | Matrix: Soil | Date Prep: 11.13.18
Parent Sample Id: 605309-001 | MS Sample Id: 605309-001 S | MSD Sample Id: 605309-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.99	999	851	85	848	85	70-135	0	20	mg/kg	11.13.18 17:00	
Diesel Range Organics (DRO)	462	999	1330	87	1340	88	70-135	1	20	mg/kg	11.13.18 17:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		103		70-135	%	11.13.18 17:00
o-Terphenyl	94		89		70-135	%	11.13.18 17:00

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069560 | Matrix: Solid | Date Prep: 11.13.18
MB Sample Id: 7666096-1-BLK | LCS Sample Id: 7666096-1-BKS | LCSD Sample Id: 7666096-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.122	122	0.115	114	70-130	6	35	mg/kg	11.13.18 16:57	
Toluene	<0.00200	0.100	0.105	105	0.0991	98	70-130	6	35	mg/kg	11.13.18 16:57	
Ethylbenzene	<0.00200	0.100	0.122	122	0.116	115	70-130	5	35	mg/kg	11.13.18 16:57	
m,p-Xylenes	<0.00401	0.200	0.245	123	0.246	122	70-130	0	35	mg/kg	11.13.18 16:57	
o-Xylene	<0.00200	0.100	0.122	122	0.117	116	70-130	4	35	mg/kg	11.13.18 16:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		107		95		70-130	%	11.13.18 16:57
4-Bromofluorobenzene	70		91		81		70-130	%	11.13.18 16:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069560 | Matrix: Soil | Date Prep: 11.13.18
Parent Sample Id: 605309-001 | MS Sample Id: 605309-001 S | MSD Sample Id: 605309-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00488	0.244	0.0521	21	0.0466	47	70-130	11	35	mg/kg	11.13.18 18:00	X
Toluene	<0.00488	0.244	0.0358	15	0.0335	34	70-130	7	35	mg/kg	11.13.18 18:00	X
Ethylbenzene	<0.00488	0.244	0.0339	14	0.0321	32	70-130	5	35	mg/kg	11.13.18 18:00	X
m,p-Xylenes	<0.00247	0.488	0.0601	12	0.0579	29	70-130	4	35	mg/kg	11.13.18 18:00	X
o-Xylene	<0.00488	0.244	0.0317	13	0.0308	31	70-130	3	35	mg/kg	11.13.18 18:00	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		110		70-130	%	11.13.18 18:00
4-Bromofluorobenzene	73		76		70-130	%	11.13.18 18:00

MS/MSD Percent Recovery | [D] = 100*(C-A) / B | LCS = Laboratory Control Sample | MS = Matrix Spike
Relative Percent Difference | RPD = 200* | (C-E) / (C+E) | | A = Parent Result | B = Spike Added
LCS/LCSD Recovery | [D] = 100 * (C) / [B] | C = MS/LCS Result | D = MSD/LCSD % Rec
Log Difference | Log Diff. = Log(Sample Duplicate) - Log(Original Sample) | E = MSD/LCSD Result

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Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

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CHAIN OF CUSTODY

Page 1 Of 2

Xenco Quote #

Xenco Job # 605309

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office

Company Address: 3300 N A St. Building 1 Unit 103 Midland, TX 79705

Email: abaker@ltenv.com

Phone No: (432) 704-5178

Project Contact: Adrian Baker

Samplers's Name

Project Information

Project Name/Number: RENEGA BASIN CTB

Project Location: CARLSBAD, NM

Invoice To: XTO ENERGY/KYLE LITTRELL

PO Number:

Analytical Information

BTEX (8021)

TPH (8015)

Chloride (300.0)

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	S-1	3	11/6/18	1118	S	1								X	
2	S-2			1135										X	
3	SW-1		11/6/18	0932										X	
4	SW-2			0937										X	
5	SW-3			0926										X	
6	S-4			0925										X	
7	S-5			0938										X	
8	SW-5			1535										X	
9	SW-6			1536										X	
10	SW-7			1532										X	

Turnaround Time (Business days)

- [x] Same Day TAT
- [ ] Next Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 5 Day TAT
- [ ] 7 Day TAT
- [ ] Contract TAT

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Notes:

FED-EX / UPS: Tracking # 773706936762

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		11/12/1800	1	2	11/12/1530	2 11/13/18
2	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3			3	4		4
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice: Cooler Temp. 0.3 Thermo. Corr. Factor 0.0
5			5			

Notice: 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 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

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Final 1.002

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Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
www.xenco.com

CHAIN OF CUSTODY

Xenco Quote #:
Xenco Job #: 605389

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office
Company Address: 3300 N "A" St. Building 1 Unit 103 Midland, TX 79705
Email: abaker@ltenv.com
Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name:

Project Information

Project Name/Number: REMUDA BASIN CTB
Project Location: CARLSBAD, NM
Invoice To: XTO ENERGY KYLE LITTRELL
PO Number:

Analytical Information

BTEX (8021)
TPH (8015)
CHLORIDE (300.0)

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Sample Depth	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX (8021)	TPH (8015)	CHLORIDE (300.0)
1	S-6	3	11/9/18	1540	S	1								X	X	X	X
2	S-7	6	"	1541	"	1								X	X	X	X
3														X	X	X	X
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Field Comments:

Turnaround Time (Business days)

- [x] Same Day TAT
- [ ] Next Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 5 Day TAT
- [ ] 7 Day TAT
- [ ] Contract TAT

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler:	Date Time: 11/12/18 1250	Received By: 1	Relinquished By: 2	Date Time: 11/12 1530	Received By: 2		
Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4		
Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp.	Thermo. Corr. Factor

Notice: 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 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

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Final 1.002
Page 35 of 37
Released to Imaging: 2/10/2026 2:25:28 PM



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/13/2018 01:55:00 PM

Work Order #: 605309

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11/13/2018

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11/14/2018

Jessica Kramer

Analytical Report 605373

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin CTB

15-NOV-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

15-NOV-18

Project Manager: **Adrian Baker**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **605373**
Remuda Basin CTB
Project Address: Eddy County 2RP-4958

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 605373. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 605373 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01 A	S	11-12-18 12:30	6 In	605373-001
PH01 B	S	11-12-18 12:35	1 ft	605373-002
PH02 A	S	11-12-18 15:10	6 In	605373-003
PH02 B	S	11-12-18 15:20	1 ft	605373-004

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID:
Work Order Number(s): *605373*

Report Date: *15-NOV-18*
Date Received: *11/14/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3069560 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Received by OCD: 12/2/2025 10:49:05 AM

Certificate of Analysis Summary 605373

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:
Contact: Adrian Baker
Project Location: Eddy County 2RP-4958

Date Received in Lab: Wed Nov-14-18 11:00 am
Report Date: 15-NOV-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	605373-001		605373-002		605373-003		605373-004					
	Field Id:	PH01 A		PH01 B		PH02 A		PH02 B					
	Depth:	6- In		1- ft		6- In		1- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Nov-12-18 12:30		Nov-12-18 12:35		Nov-12-18 15:10		Nov-12-18 15:20					
BTEX by EPA 8021B	*Extracted:*	Nov-14-18 13:00		Nov-14-18 13:00		Nov-14-18 13:00		Nov-14-18 13:00					
	Analyzed:	** ** ** **		** ** ** **		Nov-14-18 13:02		Nov-14-18 13:25					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Toluene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Ethylbenzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
m,p-Xylenes		<0.00402	0.00402	<0.00403	0.00403	<0.00398	0.00398	<0.00399	0.00399				
o-Xylene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Total Xylenes		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Total BTEX		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Inorganic Anions by EPA 300	*Extracted:*	Nov-14-18 12:30		Nov-14-18 12:30		Nov-14-18 12:30		Nov-14-18 12:30					
	Analyzed:	Nov-14-18 14:25		Nov-15-18 09:47		Nov-15-18 09:53		Nov-14-18 14:43					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		352	50.0	<4.97	4.97	13.0	4.98	210	25.2				
TPH by SW8015 Mod	*Extracted:*	Nov-14-18 14:00		Nov-14-18 14:00		Nov-14-18 14:00		Nov-14-18 14:00					
	Analyzed:	Nov-14-18 20:29		Nov-14-18 21:24		Nov-14-18 21:43		Nov-14-18 22:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Jessica Kramer
Project Assistant

Released to Imaging: 2/10/2026 2:25:28 PM

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH01 A**	Matrix:	Soil	Date Received:	11.14.18 11.00
Lab Sample Id:	605373-001	Date Collected:	11.12.18 12.30	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.14.18 12.30	Basis:	Wet Weight
Seq Number:	3069670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**352**	50.0	mg/kg	11.14.18 14.25		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.14.18 14.00	Basis:	Wet Weight
Seq Number:	3069680				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.14.18 20.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.14.18 20.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.14.18 20.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.14.18 20.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.14.18 20.29	
o-Terphenyl	84-15-1	93	%	70-135	11.14.18 20.29	

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH01 A**	Matrix:	Soil	Date Received:	11.14.18 11.00
Lab Sample Id:	605373-001	Date Collected:	11.12.18 12.30	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.14.18 13.00	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.14.18 12.18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.14.18 12.18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.14.18 12.18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.14.18 12.18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.14.18 12.18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.14.18 12.18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.14.18 12.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	11.14.18 12.18	
4-Bromofluorobenzene	460-00-4	71	%	70-130	11.14.18 12.18	

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH01 B**	Matrix:	Soil	Date Received:	11.14.18 11.00
Lab Sample Id:	605373-002	Date Collected:	11.12.18 12.35	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.14.18 12.30	Basis:	Wet Weight
Seq Number:	3069670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	11.15.18 09.47	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.14.18 14.00	Basis:	Wet Weight
Seq Number:	3069680				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.14.18 21.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.14.18 21.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.14.18 21.24	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.14.18 21.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	11.14.18 21.24	
o-Terphenyl	84-15-1	87	%	70-135	11.14.18 21.24	

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH01 B**	Matrix:	Soil	Date Received:	11.14.18 11.00
Lab Sample Id:	605373-002	Date Collected:	11.12.18 12.35	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.14.18 13.00	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.14.18 12.40	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.14.18 12.40	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.14.18 12.40	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.14.18 12.40	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.14.18 12.40	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.14.18 12.40	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.14.18 12.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	11.14.18 12.40	
4-Bromofluorobenzene	460-00-4	75	%	70-130	11.14.18 12.40	

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **PH02 A** Matrix: Soil Date Received:11.14.18 11.00

Lab Sample Id: 605373-003 Date Collected: 11.12.18 15.10 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.14.18 12.30 Basis: Wet Weight

Seq Number: 3069670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.0**	4.98	mg/kg	11.15.18 09.53		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 11.14.18 14.00 Basis: Wet Weight

Seq Number: 3069680

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.14.18 21.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.14.18 21.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.14.18 21.43	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.14.18 21.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.14.18 21.43	
o-Terphenyl	84-15-1	92	%	70-135	11.14.18 21.43	

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH02 A**	Matrix:	Soil	Date Received:	11.14.18 11.00
Lab Sample Id:	605373-003	Date Collected:	11.12.18 15.10	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.14.18 13.00	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.14.18 13.02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.14.18 13.02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.14.18 13.02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.14.18 13.02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.14.18 13.02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.14.18 13.02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.14.18 13.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.14.18 13.02	
4-Bromofluorobenzene	460-00-4	72	%	70-130	11.14.18 13.02	

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **PH02 B** Matrix: Soil Date Received:11.14.18 11.00

Lab Sample Id: 605373-004 Date Collected: 11.12.18 15.20 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.14.18 12.30 Basis: Wet Weight

Seq Number: 3069670

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**210**	25.2	mg/kg	11.14.18 14.43		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 11.14.18 14.00 Basis: Wet Weight

Seq Number: 3069680

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.14.18 22.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.14.18 22.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.14.18 22.01	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.14.18 22.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.14.18 22.01	
o-Terphenyl	84-15-1	91	%	70-135	11.14.18 22.01	

Certificate of Analytical Results 605373

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH02 B**	Matrix:	Soil	Date Received:	11.14.18 11.00
Lab Sample Id:	605373-004	Date Collected:	11.12.18 15.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.14.18 13.00	Basis:	Wet Weight
Seq Number:	3069560				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.14.18 13.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.14.18 13.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.14.18 13.25	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.14.18 13.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.14.18 13.25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.14.18 13.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.14.18 13.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.14.18 13.25	
4-Bromofluorobenzene	460-00-4	77	%	70-130	11.14.18 13.25	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 605373

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069670 Matrix: Solid Date Prep: 11.14.18
MB Sample Id: 7666131-1-BLK LCS Sample Id: 7666131-1-BKS LCSD Sample Id: 7666131-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	257	103	90-110	2	20	mg/kg	11.14.18 13:54	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069670 Matrix: Soil Date Prep: 11.14.18
Parent Sample Id: 605034-006 MS Sample Id: 605034-006 S MSD Sample Id: 605034-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.93	248	240	94	251	98	90-110	4	20	mg/kg	11.14.18 15:39	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069670 Matrix: Soil Date Prep: 11.14.18
Parent Sample Id: 605374-001 MS Sample Id: 605374-001 S MSD Sample Id: 605374-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	903	252	1100	78	1100	78	90-110	0	20	mg/kg	11.14.18 14:12	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3069680 Matrix: Solid Date Prep: 11.14.18
MB Sample Id: 7666151-1-BLK LCS Sample Id: 7666151-1-BKS LCSD Sample Id: 7666151-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	966	97	978	98	70-135	1	20	mg/kg	11.14.18 19:52	
Diesel Range Organics (DRO)	<8.13	1000	929	93	947	95	70-135	2	20	mg/kg	11.14.18 19:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	85		121		123		70-135	%	11.14.18 19:52
o-Terphenyl	91		97		101		70-135	%	11.14.18 19:52

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 605373

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3069680 | Matrix: Soil | Date Prep: 11.14.18
Parent Sample Id: 605373-001 | MS Sample Id: 605373-001 S | MSD Sample Id: 605373-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.99	998	915	92	930	93	70-135	2	20	mg/kg	11.14.18 20:47	
Diesel Range Organics (DRO)	<8.11	998	902	90	916	92	70-135	2	20	mg/kg	11.14.18 20:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		107		70-135	%	11.14.18 20:47
o-Terphenyl	97		95		70-135	%	11.14.18 20:47

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069560 | Matrix: Solid | Date Prep: 11.13.18
MB Sample Id: 7666096-1-BLK | LCS Sample Id: 7666096-1-BKS | LCSD Sample Id: 7666096-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.122	122	0.115	114	70-130	6	35	mg/kg	11.13.18 16:57	
Toluene	<0.00200	0.100	0.105	105	0.0991	98	70-130	6	35	mg/kg	11.13.18 16:57	
Ethylbenzene	<0.00200	0.100	0.122	122	0.116	115	70-130	5	35	mg/kg	11.13.18 16:57	
m,p-Xylenes	<0.00401	0.200	0.245	123	0.246	122	70-130	0	35	mg/kg	11.13.18 16:57	
o-Xylene	<0.00200	0.100	0.122	122	0.117	116	70-130	4	35	mg/kg	11.13.18 16:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		107		95		70-130	%	11.13.18 16:57
4-Bromofluorobenzene	70		91		81		70-130	%	11.13.18 16:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069560 | Matrix: Soil | Date Prep: 11.13.18
Parent Sample Id: 605309-001 | MS Sample Id: 605309-001 S | MSD Sample Id: 605309-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00488	0.244	0.0521	21	0.0466	47	70-130	11	35	mg/kg	11.13.18 18:00	X
Toluene	<0.00488	0.244	0.0358	15	0.0335	34	70-130	7	35	mg/kg	11.13.18 18:00	X
Ethylbenzene	<0.00488	0.244	0.0339	14	0.0321	32	70-130	5	35	mg/kg	11.13.18 18:00	X
m,p-Xylenes	<0.00247	0.488	0.0601	12	0.0579	29	70-130	4	35	mg/kg	11.13.18 18:00	X
o-Xylene	<0.00488	0.244	0.0317	13	0.0308	31	70-130	3	35	mg/kg	11.13.18 18:00	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		110		70-130	%	11.13.18 18:00
4-Bromofluorobenzene	73		76		70-130	%	11.13.18 18:00

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

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CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 605373

Client / Reporting Information

Company Name / Branch: Ltl Environmental, Inc. Permian Office

Company Address: 3300 N A St. Building 1 Unit 103 Midland, TX 79705

Email: abaker@ltenv.com Phone No: (432) 704-5178

Project Contact: Adrian Baker

Samplers's Name: Anna Byers

Project Information

Project Name/Number: Remuda Basin CTB

Project Location: Eddy County 2RP4958

Invoice To: XTO : Kyle Littrell

PO Number:

Analytical Information

BTEX (only BTEX) 8021

TPH (DRO, GRO, MRO) 8015

Chloride (300.00)

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Sample Depth	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	PH01 A	6"	11/12	12:30	S	1								X	
2	PH01 B	1'	11/12	12:35	S	1								X	
3	PH02 A	6"	11/12	15:10	S	1								X	
4	PH02 B	1'	11/12	15:20	S	1								X	
5															
6															
7															
8															
9															
10															

11/13/18 1200

Turnaround Time (Business days)

- [X] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking # 773181125311

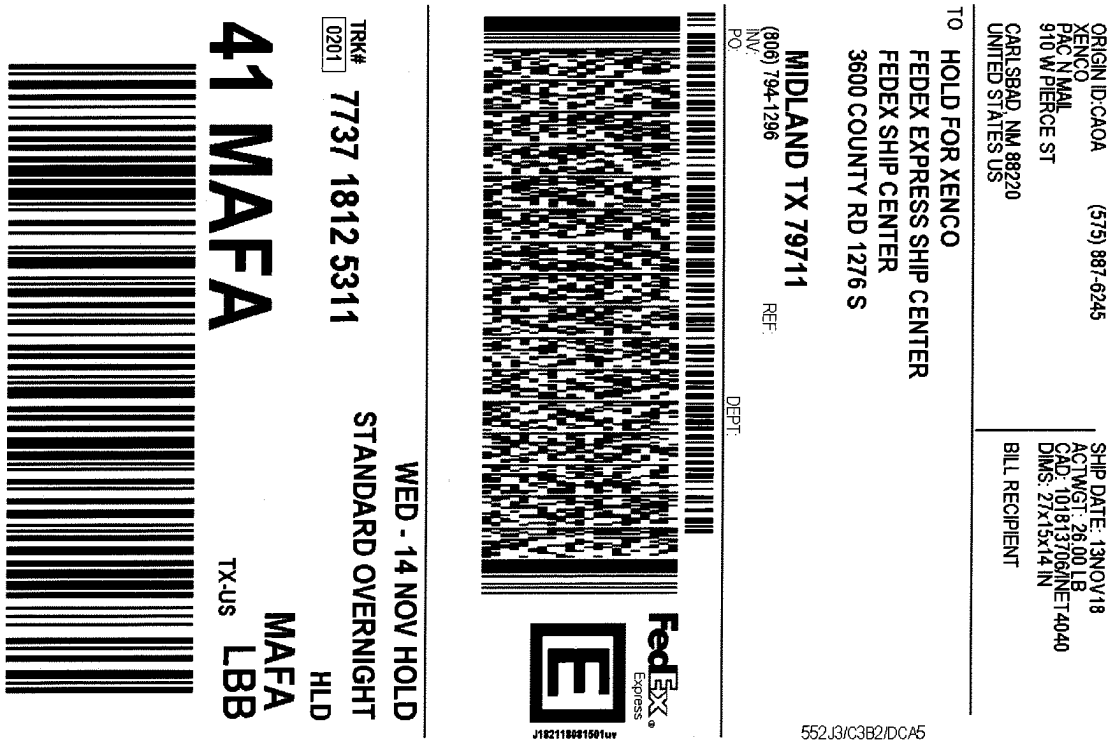
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler: 1	Anna Byers	Date Time: 11/12/18 17:30	Received By: 1	Relinquished By: 2		Date Time: 11/13/18 1020	Received By: 2
Relinquished by: 3		Date Time: 11/13/18 15:30	Received By: 3	11/14	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5		Date Time:	Received By: 5	11:00	Custody Seal #	Preserved where applicable	On Ice: X

Cooler Temp. 0.5 Thermo. Corr. Factor 0.0

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 12/2/2025 10:49:05 AM
Page 17 of 19
Final 1.000
Released to Imaging: 2/10/2026 2:25:28 PM



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/14/2018 11:00:00 AM

Work Order #: 605373

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11/14/2018

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11/14/2018

Jessica Kramer

Analytical Report 605663

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin CTB

18-NOV-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

18-NOV-18

Project Manager: **Adrian Baker**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **605663**
Remuda Basin CTB
Project Address: Eddy County 2RP4958

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 605663. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 605663 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH06 A	S	11-14-18 11:15	6 In	605663-001
PH06 B	S	11-14-18 11:20	1 ft	605663-002
PH07 A	S	11-14-18 13:20	6 In	605663-003
PH07 B	S	11-14-18 13:35	1 ft	605663-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID:
Work Order Number(s): *605663*

Report Date: *18-NOV-18*
Date Received: *11/15/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3069968 BTEX by EPA 8021B

Lab Sample ID 605663-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 605663-001, -002, -003, -004.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 605663

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:

Contact: Adrian Baker

Project Location: Eddy County 2RP4958

Date Received in Lab: Thu Nov-15-18 03:05 pm

Report Date: 18-NOV-18

Project Manager: Jessica Kramer

Analysis Requested		Lab Id:	605663-001		605663-002		605663-003		605663-004			
		Field Id:	PH06 A		PH06 B		PH07 A		PH07 B			
		Depth:	6- In		1- ft		6- In		1- ft			
		Matrix:	SOIL		SOIL		SOIL		SOIL			
		Sampled:	Nov-14-18 11:15		Nov-14-18 11:20		Nov-14-18 13:20		Nov-14-18 13:35			
BTEX by EPA 8021B		Extracted:	Nov-17-18 10:00		Nov-17-18 10:00		Nov-17-18 10:00		Nov-17-18 10:00			
		Analyzed:	Nov-17-18 14:38		Nov-17-18 14:58		Nov-17-18 15:17		Nov-17-18 15:37			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene			<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199		
Toluene			<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199		
Ethylbenzene			<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199		
m,p-Xylenes			<0.00401	0.00401	<0.00397	0.00397	<0.00398	0.00398	<0.00398	0.00398		
o-Xylene			<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199		
Total Xylenes			<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199		
Total BTEX			<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199		
Inorganic Anions by EPA 300		Extracted:	Nov-15-18 16:15		Nov-15-18 16:15		Nov-15-18 16:15		Nov-15-18 16:15			
		Analyzed:	Nov-15-18 21:54		Nov-15-18 22:00		Nov-15-18 22:06		Nov-15-18 22:12			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride			<4.95	4.95	8.99	4.96	255	49.7	243	50.0		
TPH by SW8015 Mod		Extracted:	Nov-15-18 17:00		Nov-15-18 17:00		Nov-15-18 17:00		Nov-15-18 17:00			
		Analyzed:	Nov-16-18 00:39		Nov-16-18 01:34		Nov-16-18 01:52		Nov-16-18 02:11			
		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)			<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)			<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0		
Motor Oil Range Hydrocarbons (MRO)			<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0		
Total TPH			<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **PH06 A** Matrix: Soil Date Received:11.15.18 15.05

Lab Sample Id: 605663-001 Date Collected: 11.14.18 11.15 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.15.18 16.15 Basis: Wet Weight

Seq Number: 3069902

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	11.16.18 11.26	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 11.15.18 17.00 Basis: Wet Weight

Seq Number: 3069890

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 00.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 00.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 00.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 00.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.16.18 00.39	
o-Terphenyl	84-15-1	99	%	70-135	11.16.18 00.39	

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH06 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605663-001	Date Collected:	11.14.18 11.15	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.17.18 14.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.17.18 14.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.17.18 14.38	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.17.18 14.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.17.18 14.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.17.18 14.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.17.18 14.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.17.18 14.38	
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.17.18 14.38	

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH06 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605663-002	Date Collected:	11.14.18 11.20	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.15.18 16.15	Basis:	Wet Weight
Seq Number:	3069902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.99**	4.96	mg/kg	11.16.18 11.32		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.15.18 17.00	Basis:	Wet Weight
Seq Number:	3069890				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	11.16.18 01.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	11.16.18 01.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	11.16.18 01.34	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	11.16.18 01.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	11.16.18 01.34	
o-Terphenyl	84-15-1	96	%	70-135	11.16.18 01.34	

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH06 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605663-002	Date Collected:	11.14.18 11.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.17.18 14.58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.17.18 14.58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.17.18 14.58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.17.18 14.58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.17.18 14.58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.17.18 14.58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.17.18 14.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.17.18 14.58	
4-Bromofluorobenzene	460-00-4	128	%	70-130	11.17.18 14.58	

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH07 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605663-003	Date Collected:	11.14.18 13.20	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.15.18 16.15	Basis:	Wet Weight
Seq Number:	3069902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**255**	49.7	mg/kg	11.16.18 11.39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.15.18 17.00	Basis:	Wet Weight
Seq Number:	3069890				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 01.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 01.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 01.52	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 01.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.16.18 01.52	
o-Terphenyl	84-15-1	92	%	70-135	11.16.18 01.52	

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH07 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605663-003	Date Collected:	11.14.18 13.20	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.17.18 15.17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.17.18 15.17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.17.18 15.17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.17.18 15.17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.17.18 15.17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.17.18 15.17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.17.18 15.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.17.18 15.17	
4-Bromofluorobenzene	460-00-4	126	%	70-130	11.17.18 15.17	

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **PH07 B** Matrix: Soil Date Received:11.15.18 15.05

Lab Sample Id: 605663-004 Date Collected: 11.14.18 13.35 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.15.18 16.15 Basis: Wet Weight

Seq Number: 3069902

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**243**	50.0	mg/kg	11.16.18 11.45		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 11.15.18 17.00 Basis: Wet Weight

Seq Number: 3069890

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 02.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 02.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 02.11	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 02.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	11.16.18 02.11	
o-Terphenyl	84-15-1	94	%	70-135	11.16.18 02.11	

Certificate of Analytical Results 605663

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH07 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605663-004	Date Collected:	11.14.18 13.35	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.17.18 15.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.17.18 15.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.17.18 15.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.17.18 15.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.17.18 15.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.17.18 15.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.17.18 15.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	130	%	70-130	11.17.18 15.37	
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.17.18 15.37	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 605663

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069902 Matrix: Solid Date Prep: 11.15.18
MB Sample Id: 7666228-1-BLK LCS Sample Id: 7666228-1-BKS LCSD Sample Id: 7666228-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	270	108	274	110	90-110	1	20	mg/kg	11.16.18 10:55	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069902 Matrix: Solid Date Prep: 11.15.18
Parent Sample Id: 605664-001 MS Sample Id: 605664-001 S MSD Sample Id: 605664-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.75	250	289	115	285	113	90-110	1	20	mg/kg	11.16.18 11:14	X

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069902 Matrix: Soil Date Prep: 11.15.18
Parent Sample Id: 605665-001 MS Sample Id: 605665-001 S MSD Sample Id: 605665-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	414	250	693	112	650	94	90-110	6	20	mg/kg	11.15.18 23:08	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3069890 Matrix: Solid Date Prep: 11.15.18
MB Sample Id: 7666236-1-BLK LCS Sample Id: 7666236-1-BKS LCSD Sample Id: 7666236-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1000	100	992	99	70-135	1	20	mg/kg	11.16.18 00:03	
Diesel Range Organics (DRO)	<8.13	1000	991	99	978	98	70-135	1	20	mg/kg	11.16.18 00:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		126		125		70-135	%	11.16.18 00:03
o-Terphenyl	94		99		102		70-135	%	11.16.18 00:03

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 605663

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3069890 | Matrix: Soil | Date Prep: 11.15.18
Parent Sample Id: 605663-001 | MS Sample Id: 605663-001 S | MSD Sample Id: 605663-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	981	98	962	96	70-135	2	20	mg/kg	11.16.18 00:57	
Diesel Range Organics (DRO)	<8.13	1000	974	97	948	95	70-135	3	20	mg/kg	11.16.18 00:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		125		70-135	%	11.16.18 00:57
o-Terphenyl	104		103		70-135	%	11.16.18 00:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069968 | Matrix: Solid | Date Prep: 11.17.18
MB Sample Id: 7666368-1-BLK | LCS Sample Id: 7666368-1-BKS | LCSD Sample Id: 7666368-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.106	107	0.0981	98	70-130	8	35	mg/kg	11.17.18 12:39	
Toluene	<0.00199	0.0994	0.0936	94	0.0873	87	70-130	7	35	mg/kg	11.17.18 12:39	
Ethylbenzene	<0.00199	0.0994	0.101	102	0.0954	96	70-130	6	35	mg/kg	11.17.18 12:39	
m,p-Xylenes	<0.00398	0.199	0.195	98	0.185	93	70-130	5	35	mg/kg	11.17.18 12:39	
o-Xylene	<0.00199	0.0994	0.0981	99	0.0932	93	70-130	5	35	mg/kg	11.17.18 12:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		100		70-130	%	11.17.18 12:39
4-Bromofluorobenzene	107		115		116		70-130	%	11.17.18 12:39

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069968 | Matrix: Soil | Date Prep: 11.17.18
Parent Sample Id: 605663-001 | MS Sample Id: 605663-001 S | MSD Sample Id: 605663-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00488	0.244	0.00910	4	0.00833	8	70-130	9	35	mg/kg	11.17.18 13:18	X
Toluene	<0.00488	0.244	0.00812	3	0.00674	7	70-130	19	35	mg/kg	11.17.18 13:18	X
Ethylbenzene	<0.00488	0.244	0.00910	4	0.00736	7	70-130	21	35	mg/kg	11.17.18 13:18	X
m,p-Xylenes	<0.00247	0.488	0.0196	4	0.0152	8	70-130	25	35	mg/kg	11.17.18 13:18	X
o-Xylene	<0.00488	0.244	0.0108	4	0.00815	8	70-130	28	35	mg/kg	11.17.18 13:18	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		109		70-130	%	11.17.18 13:18
4-Bromofluorobenzene	130		125		70-130	%	11.17.18 13:18

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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XENCO LABORATORIES

Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334)

Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

www.xenco.com

CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 605663

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office

Company Address: 3300 N "A" St. Building 1 unit 103 Midland, TX 79705

Email: abaker@ltenv.com

Phone No: (432) 704-5178

Project Contact: Adrian Baker

Samplers's Name: Anna Byers

Project Information

Project Name/Number: Remuda Basin CTB

Project Location: Eddy County 2RP4958

Invoice To: XTO Kyle Littrell

PO Number:

Analytical Information

BTEX (only BTEX) 8021

TPH/DRO GRO MRO) 8015

Chloride (300.00)

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preservative bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	PH06 A	6"	11/14	11:15	S	1								X	
2	PH06 B	1'	11/14	11:20	S	1								X	
3	PH07 A	6"	11/14	13:20	S	1								X	
4	PH07 B	1'	11/14	13:35	S	1								X	
5															
6															
7															
8															
9															
10															

Turnaround Time (Business days)

- [X] Same Day TAT
- [ ] Next Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 5 Day TAT
- [ ] 7 Day TAT
- [ ] Contract TAT

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Notes:

FED-EX / UPS: Tracking # 773724150490

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

1	Relinquished by Sampler: Anna Byers	Date Time: 15:00 11/14/18	Received By:	1	Relinquished By:	Date Time:	Received By:
2	Relinquished by:	Date Time:	Received By:	2	Relinquished By:	Date Time: 11/14/18 1550	Received By: 11/15 1505
3	Relinquished by:	Date Time:	Received By:	3	Relinquished By:	Date Time:	Received By:
4	Relinquished by:	Date Time:	Received By:	4	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. 0.3/0.2 / Thermo. Corr. Factor NA
5				5			

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 12/2/2025 10:49:05 AM

Released to Imaging: 2/10/2026 2:25:28 PM

Final 1.000

Page 17 of 19



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/15/2018 03:05:00 PM

Work Order #: 605663

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11/15/2018

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11/16/2018

Jessica Kramer

Analytical Report 605664

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin CTB

19-NOV-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

19-NOV-18

Project Manager: **Adrian Baker**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **605664**
Remuda Basin CTB
Project Address: Eddy County 2RP4958

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 605664. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 605664 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
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Sample Cross Reference 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH03 A	S	11-13-18 09:45	6 In	605664-001
PH03 B	S	11-13-18 09:50	1 ft	605664-002
PH04 A	S	11-13-18 10:45	6 In	605664-003
PH04 B	S	11-13-18 10:55	1 ft	605664-004
PH05 A	S	11-13-18 15:15	6 In	605664-005
PH05 B	S	11-13-18 15:25	1 ft	605664-006

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID:
Work Order Number(s): *605664*

Report Date: *19-NOV-18*
Date Received: *11/15/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3069902 Inorganic Anions by EPA 300
Lab Sample ID 605665-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 605664-001, -002, -004, -005, -006.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3069968 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 605664-002.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 605664

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:

Contact: Adrian Baker

Project Location: Eddy County 2RP4958

Date Received in Lab: Thu Nov-15-18 03:05 pm

Report Date: 19-NOV-18

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	605664-001		605664-002		605664-003		605664-004		605664-005		605664-006	
	Field Id:	PH03 A		PH03 B		PH04 A		PH04 B		PH05 A		PH05 B	
	Depth:	6- In		1- ft		6- In		1- ft		6- In		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-18 09:45		Nov-13-18 09:50		Nov-13-18 10:45		Nov-13-18 10:55		Nov-13-18 15:15		Nov-13-18 15:25	
BTEX by EPA 8021B	***Extracted:***	Nov-17-18 10:00		Nov-17-18 10:00		Nov-17-18 10:00		Nov-17-18 10:00		Nov-17-18 10:00		Nov-17-18 10:00	
	Analyzed:	Nov-17-18 15:57		Nov-17-18 16:16		Nov-17-18 16:36		Nov-17-18 16:56		Nov-17-18 17:15		Nov-17-18 17:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00398	0.00398	<0.00399	0.00399	<0.00399	0.00399	<0.00398	0.00398	<0.00401	0.00401
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Nov-15-18 16:15		Nov-15-18 16:15		Nov-15-18 16:15		Nov-15-18 16:15		Nov-15-18 16:15		Nov-15-18 16:15	
	Analyzed:	Nov-15-18 21:35		Nov-15-18 22:31		Nov-15-18 22:37		Nov-15-18 22:43		Nov-15-18 22:49		Nov-15-18 22:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1.75	0.500	6.19	5.01	207	4.98	6600	49.6	101	5.00	221	4.99
TPH by SW8015 Mod	***Extracted:***	Nov-15-18 17:00		Nov-15-18 17:00		Nov-15-18 17:00		Nov-15-18 17:00		Nov-15-18 17:00		Nov-15-18 17:00	
	Analyzed:	Nov-16-18 02:29		Nov-16-18 02:47		Nov-16-18 03:06		Nov-16-18 03:24		Nov-16-18 03:42		Nov-16-18 04:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
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Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

Final 1.000

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **PH03 A** Matrix: Soil Date Received:11.15.18 15.05

Lab Sample Id: 605664-001 Date Collected: 11.13.18 09.45 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.15.18 16.15 Basis: Wet Weight

Seq Number: 3069902

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.75**	0.500	mg/kg	11.16.18 11.08		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 11.15.18 17.00 Basis: Wet Weight

Seq Number: 3069890

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 02.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 02.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 02.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 02.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.16.18 02.29	
o-Terphenyl	84-15-1	94	%	70-135	11.16.18 02.29	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH03 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-001	Date Collected:	11.13.18 09.45	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.17.18 15.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.17.18 15.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.17.18 15.57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.17.18 15.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.17.18 15.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.17.18 15.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.17.18 15.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.17.18 15.57	
4-Bromofluorobenzene	460-00-4	128	%	70-130	11.17.18 15.57	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH03 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-002	Date Collected:	11.13.18 09.50	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.15.18 16.15	Basis:	Wet Weight
Seq Number:	3069902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.19**	5.01	mg/kg	11.15.18 22.31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.15.18 17.00	Basis:	Wet Weight
Seq Number:	3069890				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 02.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 02.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 02.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 02.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.16.18 02.47	
o-Terphenyl	84-15-1	93	%	70-135	11.16.18 02.47	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH03 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-002	Date Collected:	11.13.18 09.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.17.18 16.16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.17.18 16.16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.17.18 16.16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.17.18 16.16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.17.18 16.16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.17.18 16.16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.17.18 16.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	70-130	11.17.18 16.16	**
1,4-Difluorobenzene	540-36-3	111	%	70-130	11.17.18 16.16	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH04 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-003	Date Collected:	11.13.18 10.45	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.15.18 16.15	Basis:	Wet Weight
Seq Number:	3069902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**207**	4.98	mg/kg	11.15.18 22.37		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.15.18 17.00	Basis:	Wet Weight
Seq Number:	3069890				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 03.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 03.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 03.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 03.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.16.18 03.06	
o-Terphenyl	84-15-1	93	%	70-135	11.16.18 03.06	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH04 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-003	Date Collected:	11.13.18 10.45	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.17.18 16.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.17.18 16.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.17.18 16.36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.17.18 16.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.17.18 16.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.17.18 16.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.17.18 16.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.17.18 16.36	
4-Bromofluorobenzene	460-00-4	130	%	70-130	11.17.18 16.36	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH04 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-004	Date Collected:	11.13.18 10.55	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.15.18 16.15	Basis:	Wet Weight
Seq Number:	3069902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6600**	49.6	mg/kg	11.15.18 22.43		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.15.18 17.00	Basis:	Wet Weight
Seq Number:	3069890				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	11.16.18 03.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	11.16.18 03.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	11.16.18 03.24	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	11.16.18 03.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.16.18 03.24	
o-Terphenyl	84-15-1	91	%	70-135	11.16.18 03.24	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH04 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-004	Date Collected:	11.13.18 10.55	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.17.18 16.56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.17.18 16.56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.17.18 16.56	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.17.18 16.56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.17.18 16.56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.17.18 16.56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.17.18 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.17.18 16.56	
4-Bromofluorobenzene	460-00-4	128	%	70-130	11.17.18 16.56	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH05 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-005	Date Collected:	11.13.18 15.15	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.15.18 16.15	Basis:	Wet Weight
Seq Number:	3069902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**101**	5.00	mg/kg	11.15.18 22.49		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.15.18 17.00	Basis:	Wet Weight
Seq Number:	3069890				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 03.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 03.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 03.42	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 03.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	11.16.18 03.42	
o-Terphenyl	84-15-1	94	%	70-135	11.16.18 03.42	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH05 A**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-005	Date Collected:	11.13.18 15.15	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.17.18 17.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.17.18 17.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.17.18 17.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.17.18 17.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.17.18 17.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.17.18 17.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.17.18 17.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	129	%	70-130	11.17.18 17.15	
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.17.18 17.15	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH05 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-006	Date Collected:	11.13.18 15.25	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.15.18 16.15	Basis:	Wet Weight
Seq Number:	3069902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**221**	4.99	mg/kg	11.15.18 22.55		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	11.15.18 17.00	Basis:	Wet Weight
Seq Number:	3069890				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.18 04.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.18 04.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	11.16.18 04.01	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.18 04.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.16.18 04.01	
o-Terphenyl	84-15-1	89	%	70-135	11.16.18 04.01	

Certificate of Analytical Results 605664

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**PH05 B**	Matrix:	Soil	Date Received:	11.15.18 15.05
Lab Sample Id:	605664-006	Date Collected:	11.13.18 15.25	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	11.17.18 10.00	Basis:	Wet Weight
Seq Number:	3069968				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.17.18 17.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.17.18 17.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.17.18 17.35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.17.18 17.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.17.18 17.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.17.18 17.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.17.18 17.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.17.18 17.35	
4-Bromofluorobenzene	460-00-4	130	%	70-130	11.17.18 17.35	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 605664

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069902 Matrix: Solid Date Prep: 11.15.18
MB Sample Id: 7666228-1-BLK LCS Sample Id: 7666228-1-BKS LCSD Sample Id: 7666228-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	270	108	274	110	90-110	1	20	mg/kg	11.16.18 10:55	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069902 Matrix: Solid Date Prep: 11.15.18
Parent Sample Id: 605664-001 MS Sample Id: 605664-001 S MSD Sample Id: 605664-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.75	250	289	115	285	113	90-110	1	20	mg/kg	11.16.18 11:14	X

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3069902 Matrix: Soil Date Prep: 11.15.18
Parent Sample Id: 605665-001 MS Sample Id: 605665-001 S MSD Sample Id: 605665-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	414	250	693	112	650	94	90-110	6	20	mg/kg	11.15.18 23:08	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3069890 Matrix: Solid Date Prep: 11.15.18
MB Sample Id: 7666236-1-BLK LCS Sample Id: 7666236-1-BKS LCSD Sample Id: 7666236-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1000	100	992	99	70-135	1	20	mg/kg	11.16.18 00:03	
Diesel Range Organics (DRO)	<8.13	1000	991	99	978	98	70-135	1	20	mg/kg	11.16.18 00:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		126		125		70-135	%	11.16.18 00:03
o-Terphenyl	94		99		102		70-135	%	11.16.18 00:03

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 605664

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3069890 | Matrix: Soil | Date Prep: 11.15.18
Parent Sample Id: 605663-001 | MS Sample Id: 605663-001 S | MSD Sample Id: 605663-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	981	98	962	96	70-135	2	20	mg/kg	11.16.18 00:57	
Diesel Range Organics (DRO)	<8.13	1000	974	97	948	95	70-135	3	20	mg/kg	11.16.18 00:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		125		70-135	%	11.16.18 00:57
o-Terphenyl	104		103		70-135	%	11.16.18 00:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069968 | Matrix: Solid | Date Prep: 11.17.18
MB Sample Id: 7666368-1-BLK | LCS Sample Id: 7666368-1-BKS | LCSD Sample Id: 7666368-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.106	107	0.0981	98	70-130	8	35	mg/kg	11.17.18 12:39	
Toluene	<0.00199	0.0994	0.0936	94	0.0873	87	70-130	7	35	mg/kg	11.17.18 12:39	
Ethylbenzene	<0.00199	0.0994	0.101	102	0.0954	96	70-130	6	35	mg/kg	11.17.18 12:39	
m,p-Xylenes	<0.00398	0.199	0.195	98	0.185	93	70-130	5	35	mg/kg	11.17.18 12:39	
o-Xylene	<0.00199	0.0994	0.0981	99	0.0932	93	70-130	5	35	mg/kg	11.17.18 12:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		100		70-130	%	11.17.18 12:39
4-Bromofluorobenzene	107		115		116		70-130	%	11.17.18 12:39

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3069968 | Matrix: Soil | Date Prep: 11.17.18
Parent Sample Id: 605663-001 | MS Sample Id: 605663-001 S | MSD Sample Id: 605663-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00488	0.244	0.00910	4	0.00833	8	70-130	9	35	mg/kg	11.17.18 13:18	X
Toluene	<0.00488	0.244	0.00812	3	0.00674	7	70-130	19	35	mg/kg	11.17.18 13:18	X
Ethylbenzene	<0.00488	0.244	0.00910	4	0.00736	7	70-130	21	35	mg/kg	11.17.18 13:18	X
m,p-Xylenes	<0.00247	0.488	0.0196	4	0.0152	8	70-130	25	35	mg/kg	11.17.18 13:18	X
o-Xylene	<0.00488	0.244	0.0108	4	0.00815	8	70-130	28	35	mg/kg	11.17.18 13:18	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		109		70-130	%	11.17.18 13:18
4-Bromofluorobenzene	130		125		70-130	%	11.17.18 13:18

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

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CHAIN OF CUSTODY

Page 1 of 1

Xenco Quote #: | Xenco Job #: 600544

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office
Company Address: 3300 N A St. Building 1 Unit 103 Midland, TX 79705
Email: abaker@ltenv.com
Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Anna Byers

Project Information

Project Name/Number: Remuda Basin CTB
Project Location: Eddy County 2RP4958
Invoice To: XTO: Kyle Littrell
PO Number:

Analytical Information

BTEX (only BTEX) 8021
TPH (DRO, GRO, MRO) 8015
Chloride (300.0)

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	BTEX	TPH	Chloride	Field Comments
1	PH03 A	6"	11/13	0945	S	1								X	X	X	X	
2	PH03 B	1'	11/13	0950	S	1								X	X	X	X	
3	PH04 A	6"	11/13	1045	S	1								X	X	X	X	
4	PH04 B	1'	11/13	1055	S	1								X	X	X	X	
5	PH05 A	6"	11/13	1515	S	1								X	X	X	X	
6	PH05 B	1'	11/13	1525	S	1								X	X	X	X	
7																		
8																		
9																		
10																		

Turnaround Time (Business days)

- [X] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking # 773729150490

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler: Anna Byers	1	Date Time: 11/14/2018 06:45	Received By:	1	Relinquished By:	Date Time:	Received By:
Relinquished by:	3	Date Time: 11/15/2018	Received By:	2	Relinquished By:	Date Time: 11/14/18 1047	Received By: Kimberly P. Elliott
Relinquished by:	5	Date Time:	Received By:	3	Relinquished By:	Date Time:	Received By:
				4	Custody Seal #	Preserved where applicable	On Ice: X Cooler Temp. 0.8 Thermo. Corr. Factor 0.2

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Final 1.000
Page 21 of 22
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Analytical Report 622512

for

LT Environmental, Inc.

Project Manager: Ashley Ager

Reumda CTB

30-APR-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)
Xenco-Lakeland: Florida (E84098)

30-APR-19

Project Manager: **Ashley Ager**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **622512**
Reumda CTB
Project Address: Delaware Basin

Ashley Ager:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 622512. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 622512 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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Sample Cross Reference 622512

LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	04-24-19 09:50	0.5 ft	622512-001
BH01A	S	04-24-19 10:00	1 ft	622512-002
BH02	S	04-23-19 10:50	1 ft	622512-003
BH02A	S	04-23-19 11:20	2 ft	622512-004
BH03	S	04-23-19 14:00	1 ft	622512-005
BH03A	S	04-23-19 14:05	2 ft	622512-006
BH04	S	04-23-19 14:15	1 ft	622512-007
BH04A	S	04-23-19 14:20	2 ft	622512-008
BH05	S	04-23-19 15:25	1 ft	622512-009
BH05A	S	04-23-19 15:30	2 ft	622512-010
BH06	S	04-23-19 15:45	1 ft	622512-011
BH06A	S	04-25-19 15:50	2 ft	622512-012
BH07	S	04-24-19 08:40	1 ft	622512-013
BH07A	S	04-24-19 08:50	1.5 ft	622512-014
BH08	S	04-24-19 09:00	0.5 ft	622512-015
BH08A	S	04-24-19 09:15	2.5 ft	622512-016
BH09	S	04-24-19 10:50	1 ft	622512-017
BH09A	S	04-24-19 10:55	1.5 ft	622512-018
BH10	S	04-24-19 14:30	1 ft	622512-019
BH10A	S	04-24-19 14:50	2.5 ft	622512-020
BH11	S	04-24-19 13:40	1 ft	622512-021
BH11A	S	04-24-19 13:50	2 ft	622512-022

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Reumda CTB

Project ID:
Work Order Number(s): *622512*

Report Date: *30-APR-19*
Date Received: *04/29/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3087338 Chloride by EPA 300
Lab Sample ID 622532-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 622512-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3087354 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3087356 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 622512-013,622512-011.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 622512

LT Environmental, Inc., Arvada, CO

Project Name: Reumda CTB

Project Id:
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Mon Apr-29-19 07:41 am
Report Date: 30-APR-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	622512-001		622512-002		622512-003		622512-004		622512-005		622512-006	
	Field Id:	BH01		BH01A		BH02		BH02A		BH03		BH03A	
	Depth:	0.5- ft		1- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Apr-24-19 09:50		Apr-24-19 10:00		Apr-23-19 10:50		Apr-23-19 11:20		Apr-23-19 14:00		Apr-23-19 14:05	
BTEX by EPA 8021B	***Extracted:***	Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00	
	Analyzed:	Apr-29-19 18:58		Apr-29-19 19:17		Apr-29-19 19:37		Apr-29-19 19:56		Apr-29-19 20:15		Apr-29-19 20:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201
Toluene		<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201
Ethylbenzene		<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201
m,p-Xylenes		<0.00402	0.00402	<0.00397	0.00397	<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402
o-Xylene		<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201
Total Xylenes		<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201
Total BTEX		<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201
Chloride by EPA 300	***Extracted:***	Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00	
	Analyzed:	Apr-29-19 17:24		Apr-29-19 17:30		Apr-29-19 17:36		Apr-29-19 17:42		Apr-29-19 17:59		Apr-29-19 18:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		472	49.8	584	49.8	814	49.6	426	50.1	113	49.7	540	50.4
TPH by SW8015 Mod	***Extracted:***	Apr-29-19 12:00		Apr-29-19 12:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00	
	Analyzed:	Apr-30-19 02:57		Apr-30-19 04:01		Apr-29-19 12:59		Apr-29-19 14:01		Apr-29-19 14:22		Apr-29-19 14:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		1210	15.0	332	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		240	15.0	98.1	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		1450	15.0	430	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total GRO-DRO		1210	15.0	332	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 622512

LT Environmental, Inc., Arvada, CO

Project Name: Reumda CTB

Project Id:
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Mon Apr-29-19 07:41 am
Report Date: 30-APR-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	622512-007		622512-008		622512-009		622512-010		622512-011		622512-012	
	Field Id:	BH04		BH04A		BH05		BH05A		BH06		BH06A	
	Depth:	1- ft		2- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Apr-23-19 14:15		Apr-23-19 14:20		Apr-23-19 15:25		Apr-23-19 15:30		Apr-23-19 15:45		Apr-25-19 15:50	
BTEX by EPA 8021B	***Extracted:***	Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 14:00		Apr-29-19 14:00		Apr-29-19 14:00	
	Analyzed:	Apr-29-19 20:53		Apr-29-19 21:13		Apr-29-19 21:32		Apr-30-19 01:00		Apr-30-19 01:19		Apr-30-19 01:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Toluene		<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Ethylbenzene		<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
m,p-Xylenes		<0.00397	0.00397	<0.00404	0.00404	<0.00403	0.00403	<0.00399	0.00399	<0.00400	0.00400	<0.00403	0.00403
o-Xylene		<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Total Xylenes		<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Total BTEX		<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Chloride by EPA 300	***Extracted:***	Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00	
	Analyzed:	Apr-29-19 18:11		Apr-29-19 18:17		Apr-30-19 11:30		Apr-29-19 18:47		Apr-29-19 18:53		Apr-29-19 19:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		591	50.3	387	50.0	18.3	5.01	408	50.1	699	49.9	519	49.7
TPH by SW8015 Mod	***Extracted:***	Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00	
	Analyzed:	Apr-29-19 15:04		Apr-29-19 15:26		Apr-29-19 15:47		Apr-29-19 16:09		Apr-29-19 16:30		Apr-29-19 16:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	24.5	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	24.5	15.0	<15.0	15.0
Total GRO-DRO		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	24.5	15.0	<15.0	15.0

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Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 622512

LT Environmental, Inc., Arvada, CO

Project Name: Reumda CTB

Project Id:
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Mon Apr-29-19 07:41 am
Report Date: 30-APR-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	622512-013		622512-014		622512-015		622512-016		622512-017		622512-018	
	Field Id:	BH07		BH07A		BH08		BH08A		BH09		BH09A	
	Depth:	1- ft		1.5- ft		0.5- ft		2.5- ft		1- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Apr-24-19 08:40		Apr-24-19 08:50		Apr-24-19 09:00		Apr-24-19 09:15		Apr-24-19 10:50		Apr-24-19 10:55	
BTEX by EPA 8021B	***Extracted:***	Apr-29-19 14:00		Apr-29-19 14:00		Apr-29-19 14:00		Apr-29-19 14:00		Apr-29-19 14:00		Apr-29-19 14:00	
	Analyzed:	Apr-30-19 01:57		Apr-30-19 02:16		Apr-30-19 02:35		Apr-30-19 02:54		Apr-30-19 03:13		Apr-30-19 04:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00202	0.00202	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
m,p-Xylenes		<0.00398	0.00398	<0.00404	0.00404	<0.00397	0.00397	<0.00402	0.00402	<0.00403	0.00403	<0.00398	0.00398
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00		Apr-29-19 13:00	
	Analyzed:	Apr-29-19 19:17		Apr-29-19 19:23		Apr-30-19 11:36		Apr-30-19 11:42		Apr-29-19 19:40		Apr-29-19 19:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		400	50.0	700	50.3	41.2	5.03	31.4	4.98	303	50.3	301	50.0
TPH by SW8015 Mod	***Extracted:***	Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00	
	Analyzed:	Apr-29-19 17:58		Apr-29-19 18:20		Apr-29-19 18:42		Apr-29-19 19:04		Apr-29-19 19:26		Apr-29-19 19:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9

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Jessica Kramer
Project Assistant

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Certificate of Analysis Summary 622512

LT Environmental, Inc., Arvada, CO

Project Name: Reumda CTB

Project Id:
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Mon Apr-29-19 07:41 am
Report Date: 30-APR-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	622512-019		622512-020		622512-021		622512-022					
	Field Id:	BH10		BH10A		BH11		BH11A					
	Depth:	1- ft		2.5- ft		1- ft		2- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Apr-24-19 14:30		Apr-24-19 14:50		Apr-24-19 13:40		Apr-24-19 13:50					
BTEX by EPA 8021B	***Extracted:***	Apr-29-19 14:00		Apr-29-19 14:00		Apr-29-19 14:00		Apr-29-19 14:00					
	Analyzed:	Apr-30-19 04:47		Apr-30-19 05:06		Apr-30-19 05:25		Apr-30-19 05:44					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
m,p-Xylenes		<0.00397	0.00397	<0.00401	0.00401	<0.00397	0.00397	<0.00398	0.00398				
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Apr-29-19 13:00		Apr-29-19 14:10		Apr-29-19 14:10		Apr-29-19 14:10					
	Analyzed:	Apr-29-19 18:29		Apr-29-19 16:05		Apr-29-19 16:10		Apr-29-19 16:15					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		892	5.01	318	25.0	210	4.95	375	24.8				
TPH by SW8015 Mod	***Extracted:***	Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00		Apr-29-19 10:00					
	Analyzed:	Apr-29-19 20:10		Apr-29-19 20:32		Apr-29-19 20:54		Apr-29-19 21:15					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	24.3	15.0	<15.0	15.0	<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	24.3	15.0	<15.0	15.0	<15.0	15.0				
Total GRO-DRO		<15.0	15.0	24.3	15.0	<15.0	15.0	<15.0	15.0				

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Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 622512

LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-001	Date Collected:	04.24.19 09.50	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**472**	49.8	mg/kg	04.29.19 17.24		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 12.00	Basis:	Wet Weight
Seq Number:	3087311				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.30.19 02.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1210**	15.0	mg/kg	04.30.19 02.57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**240**	15.0	mg/kg	04.30.19 02.57		1
Total TPH	PHC635	**1450**	15.0	mg/kg	04.30.19 02.57		1
Total GRO-DRO	PHC628	**1210**	15.0	mg/kg	04.30.19 02.57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	04.30.19 02.57	
o-Terphenyl	84-15-1	89	%	70-135	04.30.19 02.57	

Certificate of Analytical Results 622512

LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-001	Date Collected:	04.24.19 09.50	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.29.19 18.58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.29.19 18.58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.29.19 18.58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.29.19 18.58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.29.19 18.58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.29.19 18.58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.29.19 18.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	04.29.19 18.58	
4-Bromofluorobenzene	460-00-4	108	%	70-130	04.29.19 18.58	

Certificate of Analytical Results 622512

LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id: **BH01A** Matrix: Soil Date Received:04.29.19 07.41

Lab Sample Id: 622512-002 Date Collected: 04.24.19 10.00 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 04.29.19 13.00 Basis: Wet Weight

Seq Number: 3087338

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**584**	49.8	mg/kg	04.29.19 17.30		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.29.19 12.00 Basis: Wet Weight

Seq Number: 3087311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.30.19 04.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	**332**	15.0	mg/kg	04.30.19 04.01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**98.1**	15.0	mg/kg	04.30.19 04.01		1
Total TPH	PHC635	**430**	15.0	mg/kg	04.30.19 04.01		1
Total GRO-DRO	PHC628	**332**	15.0	mg/kg	04.30.19 04.01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	04.30.19 04.01	
o-Terphenyl	84-15-1	92	%	70-135	04.30.19 04.01	

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Reumda CTB

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-002	Date Collected:	04.24.19 10.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.29.19 19.17	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.29.19 19.17	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.29.19 19.17	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.29.19 19.17	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.29.19 19.17	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.29.19 19.17	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.29.19 19.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	04.29.19 19.17	
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.29.19 19.17	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-003	Date Collected:	04.23.19 10.50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**814**	49.6	mg/kg	04.29.19 17.36		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 12.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 12.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 12.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 12.59	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 12.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	04.29.19 12.59	
o-Terphenyl	84-15-1	104	%	70-135	04.29.19 12.59	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-003	Date Collected:	04.23.19 10.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.29.19 19.37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.29.19 19.37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.29.19 19.37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.29.19 19.37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.29.19 19.37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.29.19 19.37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.29.19 19.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	04.29.19 19.37	
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.29.19 19.37	

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Reumda CTB

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-004	Date Collected:	04.23.19 11.20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**426**	50.1	mg/kg	04.29.19 17.42		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 14.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 14.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 14.01	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 14.01	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 14.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	04.29.19 14.01	
o-Terphenyl	84-15-1	99	%	70-135	04.29.19 14.01	

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Reumda CTB

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-004	Date Collected:	04.23.19 11.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.29.19 19.56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.29.19 19.56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.29.19 19.56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.29.19 19.56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.29.19 19.56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.29.19 19.56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.29.19 19.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	04.29.19 19.56	
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.29.19 19.56	

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Reumda CTB

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-005	Date Collected:	04.23.19 14.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**113**	49.7	mg/kg	04.29.19 17.59		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 14.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 14.22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 14.22	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 14.22	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 14.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.29.19 14.22	
o-Terphenyl	84-15-1	90	%	70-135	04.29.19 14.22	

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Reumda CTB

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-005	Date Collected:	04.23.19 14.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.29.19 20.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.29.19 20.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.29.19 20.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.29.19 20.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.29.19 20.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.29.19 20.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.29.19 20.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.29.19 20.15	
4-Bromofluorobenzene	460-00-4	109	%	70-130	04.29.19 20.15	

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Reumda CTB

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-006	Date Collected:	04.23.19 14.05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**540**	50.4	mg/kg	04.29.19 18.05		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 14.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 14.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 14.43	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 14.43	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 14.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	04.29.19 14.43	
o-Terphenyl	84-15-1	97	%	70-135	04.29.19 14.43	

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Reumda CTB

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-006	Date Collected:	04.23.19 14.05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.29.19 20.34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.29.19 20.34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.29.19 20.34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.29.19 20.34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.29.19 20.34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.29.19 20.34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.29.19 20.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.29.19 20.34	
4-Bromofluorobenzene	460-00-4	111	%	70-130	04.29.19 20.34	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-007	Date Collected:	04.23.19 14.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**591**	50.3	mg/kg	04.29.19 18.11		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 15.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 15.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 15.04	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 15.04	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 15.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	04.29.19 15.04	
o-Terphenyl	84-15-1	93	%	70-135	04.29.19 15.04	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-007	Date Collected:	04.23.19 14.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.29.19 20.53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.29.19 20.53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.29.19 20.53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.29.19 20.53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.29.19 20.53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.29.19 20.53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.29.19 20.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.29.19 20.53	
4-Bromofluorobenzene	460-00-4	113	%	70-130	04.29.19 20.53	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-008	Date Collected:	04.23.19 14.20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**387**	50.0	mg/kg	04.29.19 18.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	04.29.19 15.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	04.29.19 15.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	04.29.19 15.26	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	04.29.19 15.26	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	04.29.19 15.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	04.29.19 15.26	
o-Terphenyl	84-15-1	95	%	70-135	04.29.19 15.26	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-008	Date Collected:	04.23.19 14.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.29.19 21.13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.29.19 21.13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.29.19 21.13	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.29.19 21.13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.29.19 21.13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.29.19 21.13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.29.19 21.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.29.19 21.13	
4-Bromofluorobenzene	460-00-4	110	%	70-130	04.29.19 21.13	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id: **BH05** Matrix: Soil Date Received:04.29.19 07.41

Lab Sample Id: 622512-009 Date Collected: 04.23.19 15.25 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 04.29.19 13.00 Basis: Wet Weight

Seq Number: 3087338

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.3**	5.01	mg/kg	04.30.19 11.30		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.29.19 10.00 Basis: Wet Weight

Seq Number: 3087309

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 15.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 15.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 15.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 15.47	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 15.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	04.29.19 15.47	
o-Terphenyl	84-15-1	97	%	70-135	04.29.19 15.47	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH05**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-009	Date Collected:	04.23.19 15.25	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087354				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.29.19 21.32	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.29.19 21.32	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.29.19 21.32	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.29.19 21.32	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.29.19 21.32	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.29.19 21.32	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.29.19 21.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.29.19 21.32	
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.29.19 21.32	

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Reumda CTB

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-010	Date Collected:	04.23.19 15.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**408**	50.1	mg/kg	04.29.19 18.47		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 16.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 16.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 16.09	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 16.09	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 16.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	04.29.19 16.09	
o-Terphenyl	84-15-1	93	%	70-135	04.29.19 16.09	

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Reumda CTB

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-010	Date Collected:	04.23.19 15.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.30.19 01.00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.30.19 01.00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.30.19 01.00	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.30.19 01.00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.30.19 01.00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.30.19 01.00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.30.19 01.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.30.19 01.00	
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.30.19 01.00	

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Reumda CTB

Sample Id: **BH06** Matrix: Soil Date Received:04.29.19 07.41

Lab Sample Id: 622512-011 Date Collected: 04.23.19 15.45 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 04.29.19 13.00 Basis: Wet Weight

Seq Number: 3087338

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**699**	49.9	mg/kg	04.29.19 18.53		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.29.19 10.00 Basis: Wet Weight

Seq Number: 3087309

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 16.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	**24.5**	15.0	mg/kg	04.29.19 16.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 16.30	U	1
Total TPH	PHC635	**24.5**	15.0	mg/kg	04.29.19 16.30		1
Total GRO-DRO	PHC628	**24.5**	15.0	mg/kg	04.29.19 16.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	04.29.19 16.30	
o-Terphenyl	84-15-1	95	%	70-135	04.29.19 16.30	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH06**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-011	Date Collected:	04.23.19 15.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.30.19 01.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.30.19 01.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.30.19 01.19	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.30.19 01.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.30.19 01.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.30.19 01.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.30.19 01.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	70-130	04.30.19 01.19	**
1,4-Difluorobenzene	540-36-3	96	%	70-130	04.30.19 01.19	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id: **BH06A** Matrix: Soil Date Received:04.29.19 07.41

Lab Sample Id: 622512-012 Date Collected: 04.25.19 15.50 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 04.29.19 13.00 Basis: Wet Weight

Seq Number: 3087338

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**519**	49.7	mg/kg	04.29.19 19.11		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.29.19 10.00 Basis: Wet Weight

Seq Number: 3087309

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 16.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 16.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 16.52	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 16.52	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 16.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.29.19 16.52	
o-Terphenyl	84-15-1	97	%	70-135	04.29.19 16.52	

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Reumda CTB

Sample Id:	**BH06A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-012	Date Collected:	04.25.19 15.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.30.19 01.38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.30.19 01.38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.30.19 01.38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.30.19 01.38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.30.19 01.38	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.30.19 01.38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.30.19 01.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.30.19 01.38	
4-Bromofluorobenzene	460-00-4	113	%	70-130	04.30.19 01.38	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH07**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-013	Date Collected:	04.24.19 08.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**400**	50.0	mg/kg	04.29.19 19.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 17.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 17.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 17.58	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 17.58	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 17.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	04.29.19 17.58	
o-Terphenyl	84-15-1	88	%	70-135	04.29.19 17.58	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH07**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-013	Date Collected:	04.24.19 08.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.30.19 01.57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.30.19 01.57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.30.19 01.57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.30.19 01.57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.30.19 01.57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.30.19 01.57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.30.19 01.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	153	%	70-130	04.30.19 01.57	**
1,4-Difluorobenzene	540-36-3	94	%	70-130	04.30.19 01.57	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-014	Date Collected:	04.24.19 08.50	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**700**	50.3	mg/kg	04.29.19 19.23		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 18.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 18.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 18.20	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 18.20	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 18.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	04.29.19 18.20	
o-Terphenyl	84-15-1	88	%	70-135	04.29.19 18.20	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-014	Date Collected:	04.24.19 08.50	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.30.19 02.16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.30.19 02.16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.30.19 02.16	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.30.19 02.16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.30.19 02.16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.30.19 02.16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.30.19 02.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	04.30.19 02.16	
1,4-Difluorobenzene	540-36-3	101	%	70-130	04.30.19 02.16	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH08**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-015	Date Collected:	04.24.19 09.00	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**41.2**	5.03	mg/kg	04.30.19 11.36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 18.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 18.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 18.42	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 18.42	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 18.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.29.19 18.42	
o-Terphenyl	84-15-1	92	%	70-135	04.29.19 18.42	

Certificate of Analytical Results 622512

LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH08**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-015	Date Collected:	04.24.19 09.00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.30.19 02.35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.30.19 02.35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.30.19 02.35	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.30.19 02.35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.30.19 02.35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.30.19 02.35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.30.19 02.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	04.30.19 02.35	
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.30.19 02.35	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id: **BH08A** Matrix: Soil Date Received:04.29.19 07.41

Lab Sample Id: 622512-016 Date Collected: 04.24.19 09.15 Sample Depth: 2.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 04.29.19 13.00 Basis: Wet Weight

Seq Number: 3087338

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.4**	4.98	mg/kg	04.30.19 11.42		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.29.19 10.00 Basis: Wet Weight

Seq Number: 3087309

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 19.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 19.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 19.04	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 19.04	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 19.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	04.29.19 19.04	
o-Terphenyl	84-15-1	91	%	70-135	04.29.19 19.04	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH08A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-016	Date Collected:	04.24.19 09.15	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.30.19 02.54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.30.19 02.54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.30.19 02.54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.30.19 02.54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.30.19 02.54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.30.19 02.54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.30.19 02.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	04.30.19 02.54	
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.30.19 02.54	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH09**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-017	Date Collected:	04.24.19 10.50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**303**	50.3	mg/kg	04.29.19 19.40		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 19.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 19.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 19.26	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 19.26	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 19.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.29.19 19.26	
o-Terphenyl	84-15-1	93	%	70-135	04.29.19 19.26	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH09**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-017	Date Collected:	04.24.19 10.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.30.19 03.13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.30.19 03.13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.30.19 03.13	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.30.19 03.13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.30.19 03.13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.30.19 03.13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.30.19 03.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.30.19 03.13	
4-Bromofluorobenzene	460-00-4	118	%	70-130	04.30.19 03.13	

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Reumda CTB

Sample Id:	**BH09A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-018	Date Collected:	04.24.19 10.55	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**301**	50.0	mg/kg	04.29.19 19.46		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	04.29.19 19.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	04.29.19 19.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	04.29.19 19.48	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	04.29.19 19.48	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	04.29.19 19.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	04.29.19 19.48	
o-Terphenyl	84-15-1	97	%	70-135	04.29.19 19.48	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH09A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-018	Date Collected:	04.24.19 10.55	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.30.19 04.28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.30.19 04.28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.30.19 04.28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.30.19 04.28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.30.19 04.28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.30.19 04.28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.30.19 04.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	04.30.19 04.28	
1,4-Difluorobenzene	540-36-3	99	%	70-130	04.30.19 04.28	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH10**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-019	Date Collected:	04.24.19 14.30	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	04.29.19 13.00	Basis:	Wet Weight
Seq Number:	3087338				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**892**	5.01	mg/kg	04.29.19 18.29		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 20.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 20.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 20.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 20.10	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 20.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	04.29.19 20.10	
o-Terphenyl	84-15-1	83	%	70-135	04.29.19 20.10	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH10**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-019	Date Collected:	04.24.19 14.30	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.30.19 04.47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.30.19 04.47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.30.19 04.47	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.30.19 04.47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.30.19 04.47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.30.19 04.47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.30.19 04.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.30.19 04.47	
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.30.19 04.47	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH10A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-020	Date Collected:	04.24.19 14.50	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.29.19 14.10	Basis:	Wet Weight
Seq Number:	3087340				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**318**	25.0	mg/kg	04.29.19 16.05		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 20.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	**24.3**	15.0	mg/kg	04.29.19 20.32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 20.32	U	1
Total TPH	PHC635	**24.3**	15.0	mg/kg	04.29.19 20.32		1
Total GRO-DRO	PHC628	**24.3**	15.0	mg/kg	04.29.19 20.32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	04.29.19 20.32	
o-Terphenyl	84-15-1	90	%	70-135	04.29.19 20.32	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH10A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-020	Date Collected:	04.24.19 14.50	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.30.19 05.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.30.19 05.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.30.19 05.06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.30.19 05.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.30.19 05.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.30.19 05.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.30.19 05.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	04.30.19 05.06	
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.30.19 05.06	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH11**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-021	Date Collected:	04.24.19 13.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.29.19 14.10	Basis:	Wet Weight
Seq Number:	3087340				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**210**	4.95	mg/kg	04.29.19 16.10		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 20.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 20.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 20.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 20.54	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 20.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	04.29.19 20.54	
o-Terphenyl	84-15-1	89	%	70-135	04.29.19 20.54	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH11**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-021	Date Collected:	04.24.19 13.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.30.19 05.25	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.30.19 05.25	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.30.19 05.25	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.30.19 05.25	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.30.19 05.25	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.30.19 05.25	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.30.19 05.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.30.19 05.25	
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.30.19 05.25	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH11A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-022	Date Collected:	04.24.19 13.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	04.29.19 14.10	Basis:	Wet Weight
Seq Number:	3087340				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**375**	24.8	mg/kg	04.29.19 16.15		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.29.19 10.00	Basis:	Wet Weight
Seq Number:	3087309				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.29.19 21.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.29.19 21.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.29.19 21.15	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.29.19 21.15	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	04.29.19 21.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	04.29.19 21.15	
o-Terphenyl	84-15-1	88	%	70-135	04.29.19 21.15	

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LT Environmental, Inc., Arvada, CO

Reumda CTB

Sample Id:	**BH11A**	Matrix:	Soil	Date Received:	04.29.19 07.41
Lab Sample Id:	622512-022	Date Collected:	04.24.19 13.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	04.29.19 14.00	Basis:	Wet Weight
Seq Number:	3087356				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.30.19 05.44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.30.19 05.44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.30.19 05.44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.30.19 05.44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.30.19 05.44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.30.19 05.44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.30.19 05.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.30.19 05.44	
4-Bromofluorobenzene	460-00-4	114	%	70-130	04.30.19 05.44	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 622512

LT Environmental, Inc.

Reumda CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3087338 — Matrix: Solid — Date Prep: 04.29.19
MB Sample Id: 7676733-1-BLK — LCS Sample Id: 7676733-1-BKS — LCSD Sample Id: 7676733-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	266	106	268	107	90-110	1	20	mg/kg	04.29.19 16:54	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3087340 — Matrix: Solid — Date Prep: 04.29.19
MB Sample Id: 7676756-1-BLK — LCS Sample Id: 7676756-1-BKS — LCSD Sample Id: 7676756-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	249	100	248	99	90-110	0	20	mg/kg	04.29.19 15:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3087338 — Matrix: Soil — Date Prep: 04.29.19
Parent Sample Id: 622512-019 — MS Sample Id: 622512-019 S — MSD Sample Id: 622512-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	892	251	1090	79	1090	79	90-110	0	20	mg/kg	04.29.19 18:35	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3087338 — Matrix: Solid — Date Prep: 04.29.19
Parent Sample Id: 622532-001 — MS Sample Id: 622532-001 S — MSD Sample Id: 622532-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19.2	252	293	109	291	108	90-110	1	20	mg/kg	04.29.19 17:12	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3087340 — Matrix: Soil — Date Prep: 04.29.19
Parent Sample Id: 622537-004 — MS Sample Id: 622537-004 S — MSD Sample Id: 622537-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	39.2	306	352	102	348	101	90-110	1	20	mg/kg	04.29.19 15:54	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 622512

LT Environmental, Inc.

Reumda CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3087340 — Matrix: Soil — Date Prep: 04.29.19
Parent Sample Id: 622537-005 — MS Sample Id: 622537-005 S — MSD Sample Id: 622537-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.28	303	323	105	320	104	90-110	1	20	mg/kg	04.29.19 17:08	

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3087309 — Matrix: Solid — Date Prep: 04.29.19
MB Sample Id: 7676780-1-BLK — LCS Sample Id: 7676780-1-BKS — LCSD Sample Id: 7676780-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1160	116	1160	116	70-135	0	20	mg/kg	04.29.19 12:17	
Diesel Range Organics (DRO)	<8.13	1000	1180	118	1180	118	70-135	0	20	mg/kg	04.29.19 12:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		124		122		70-135	%	04.29.19 12:17
o-Terphenyl	111		130		128		70-135	%	04.29.19 12:17

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3087311 — Matrix: Solid — Date Prep: 04.29.19
MB Sample Id: 7676781-1-BLK — LCS Sample Id: 7676781-1-BKS — LCSD Sample Id: 7676781-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1070	107	1170	117	70-135	9	20	mg/kg	04.29.19 22:20	
Diesel Range Organics (DRO)	<8.13	1000	1090	109	1140	114	70-135	4	20	mg/kg	04.29.19 22:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		122		119		70-135	%	04.29.19 22:20
o-Terphenyl	100		111		124		70-135	%	04.29.19 22:20

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3087309 — Matrix: Soil — Date Prep: 04.29.19
Parent Sample Id: 622512-003 — MS Sample Id: 622512-003 S — MSD Sample Id: 622512-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	991	99	1000	100	70-135	1	20	mg/kg	04.29.19 13:19	
Diesel Range Organics (DRO)	<8.13	1000	1020	102	1030	103	70-135	1	20	mg/kg	04.29.19 13:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		123		70-135	%	04.29.19 13:19
o-Terphenyl	106		103		70-135	%	04.29.19 13:19

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 622512

LT Environmental, Inc.

Reumda CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3087311 | Matrix: Soil | Date Prep: 04.29.19
Parent Sample Id: 622486-001 | MS Sample Id: 622486-001 S | MSD Sample Id: 622486-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	8.01	999	882	87	886	88	70-135	0	20	mg/kg	04.29.19 23:24	
Diesel Range Organics (DRO)	214	999	1080	87	1080	87	70-135	0	20	mg/kg	04.29.19 23:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		98		70-135	%	04.29.19 23:24
o-Terphenyl	94		91		70-135	%	04.29.19 23:24

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3087354 | Matrix: Solid | Date Prep: 04.29.19
MB Sample Id: 7676745-1-BLK | LCS Sample Id: 7676745-1-BKS | LCSD Sample Id: 7676745-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.117	116	0.112	113	70-130	4	35	mg/kg	04.29.19 12:38	
Toluene	<0.00201	0.101	0.106	105	0.102	103	70-130	4	35	mg/kg	04.29.19 12:38	
Ethylbenzene	<0.00201	0.101	0.114	113	0.110	111	70-130	4	35	mg/kg	04.29.19 12:38	
m,p-Xylenes	<0.00402	0.201	0.234	116	0.225	114	70-130	4	35	mg/kg	04.29.19 12:38	
o-Xylene	<0.00201	0.101	0.114	113	0.110	111	70-130	4	35	mg/kg	04.29.19 12:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		98		97		70-130	%	04.29.19 12:38
4-Bromofluorobenzene	97		103		101		70-130	%	04.29.19 12:38

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3087356 | Matrix: Solid | Date Prep: 04.29.19
MB Sample Id: 7676754-1-BLK | LCS Sample Id: 7676754-1-BKS | LCSD Sample Id: 7676754-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.120	121	0.118	118	70-130	2	35	mg/kg	04.29.19 22:28	
Toluene	<0.00198	0.0992	0.108	109	0.106	106	70-130	2	35	mg/kg	04.29.19 22:28	
Ethylbenzene	<0.00198	0.0992	0.115	116	0.113	113	70-130	2	35	mg/kg	04.29.19 22:28	
m,p-Xylenes	<0.00397	0.198	0.232	117	0.229	114	70-130	1	35	mg/kg	04.29.19 22:28	
o-Xylene	<0.00198	0.0992	0.115	116	0.113	113	70-130	2	35	mg/kg	04.29.19 22:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		97		96		70-130	%	04.29.19 22:28
4-Bromofluorobenzene	92		103		103		70-130	%	04.29.19 22:28

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

QC Summary 622512

LT Environmental, Inc.

Reumda CTB

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3087354 — Matrix: Soil — Date Prep: 04.29.19
Parent Sample Id: 622386-001 — MS Sample Id: 622386-001 S — MSD Sample Id: 622386-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0884	89	0.0869	87	70-130	2	35	mg/kg	04.29.19 13:16	
Toluene	<0.00199	0.0994	0.0815	82	0.0784	78	70-130	4	35	mg/kg	04.29.19 13:16	
Ethylbenzene	<0.00199	0.0994	0.0859	86	0.0816	82	70-130	5	35	mg/kg	04.29.19 13:16	
m,p-Xylenes	<0.00398	0.199	0.176	88	0.166	83	70-130	6	35	mg/kg	04.29.19 13:16	
o-Xylene	<0.00199	0.0994	0.0861	87	0.0815	82	70-130	5	35	mg/kg	04.29.19 13:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		99		70-130	%	04.29.19 13:16
4-Bromofluorobenzene	104		102		70-130	%	04.29.19 13:16

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3087356 — Matrix: Soil — Date Prep: 04.29.19
Parent Sample Id: 622384-001 — MS Sample Id: 622384-001 S — MSD Sample Id: 622384-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.106	106	0.103	102	70-130	3	35	mg/kg	04.29.19 23:07	
Toluene	<0.00199	0.0996	0.0957	96	0.0942	93	70-130	2	35	mg/kg	04.29.19 23:07	
Ethylbenzene	<0.00199	0.0996	0.102	102	0.0998	99	70-130	2	35	mg/kg	04.29.19 23:07	
m,p-Xylenes	<0.00398	0.199	0.206	104	0.203	101	70-130	1	35	mg/kg	04.29.19 23:07	
o-Xylene	<0.00199	0.0996	0.101	101	0.0995	99	70-130	1	35	mg/kg	04.29.19 23:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	04.29.19 23:07
4-Bromofluorobenzene	109		107		70-130	%	04.29.19 23:07

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Chain of Custody

Work Order No: 1e22512

XENCO LABORATORIES
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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
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Project Manager:	Ashley Ager	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178 Email:		aager@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: 4 DAY TAT	
Sampler's Name:	Robert McAfee	Due Date: 05/02/2019	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.0/2.9	Thermometer ID	
Received Intact:	(Yes) No	RS	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
BH01	S	04/24/19	0950	0.5'	1	X	X	X	discrete
BH01A		04/24/19	1000	1'		X	X	X	
BH02		04/23/19	1050	1'		X	X	X	
BH02A		04/23/19	1120	2'		X	X	X	
BH03		04/23/19	1400	1'		X	X	X	
BH03A		04/23/19	1405	2'		X	X	X	
BH04		04/23/19	1415	1'		X	X	X	
BH04A		04/23/19	1420	2'		X	X	X	
BH05		04/23/19	1525	1'		X	X	X	
BH05A		04/23/19	1530	2'		X	X	X	

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl 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 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			04/26/2019 13:20	2		04/26/19 13:20
3		Fed Ex	4/26/19 15:00	4		4/29/19 0741
5				6		

Revised Date 051418 Rev. 2018.1

7750 7494 2144

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
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Chain of Custody

Work Order No: 622512

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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

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Project Manager:	Ashley Ager	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178	Email:	aager@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB
Project Number:	
P.O. Number:	
Sampler's Name:	Robert McAfee

Turn Around

Routine ☐
Rush: 5 Day TAT
Due Date: 05/02/2019

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	3.0/2.9	Thermometer ID	R8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH06	S	04/23/19	1545	1'	1	X	X	X
BH06A		04/23/19	1550	2'		X	X	X
BH07		04/24/19	0840	1'		X	X	X
BH07A			0850	1.5'		X	X	X
BH08			0900	0.5'		X	X	X
BH08A			0915	2.5'		X	X	X
BH09			1050	1'		X	X	X
BH09A			1055	1.5'		X	X	X
BH10			1430	1'		X	X	X
BH10A			1456	2.5'		X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Discrete

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 Tl 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 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	Robert McAfee		04/26/2019 13:20	2		04/26/2019 13:40
3		FedEx	4/26/19 15:00	4		04/29/19
5				6		0741

Revised Date 051418 Rev. 2018.1

7750 7484 3044

Received by OCD: 12/2/2025 10:49:05 AM
Final 1.000
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Released to Imaging: 2/10/2026 2:25:28 PM

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Chain of Custody

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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 427512

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Project Manager:	Ashley Ager	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178 Email:		aager@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: 4 Day TAT	
Sampler's Name:	Robert McAfee	Due Date: 05/02	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.0/2.9	Thermometer ID	K8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
BH11	S	04/24/19	1340	1'	1	X	X	X	discrete
BH11A	S	04/24/19	1350	2'	1	X	X	X	discrete

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

ANALYSIS REQUEST

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 Tl 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 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	Robert McAfee		04/26/2019 13:20	2		04/26/19 15:40
3		FedEx	4/26/19 15:00	4		4/29/19 0741
5				6		

Revised Date 051418 Rev. 2018.1

7750 7494 3rd

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 60 of 62



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04/29/2019 07:41:00 AM

Work Order #: 622512

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 04/29/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 04/29/2019

Jessica Kramer

Analytical Report 626934

for

LT Environmental, Inc.

Project Manager: Ashley Ager

Remuda CTB

11-JUN-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

11-JUN-19

Project Manager: **Ashley Ager**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **626934**
Remuda CTB
Project Address: Delaware Basin

Ashley Ager:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 626934. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 626934 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 626934

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH12	S	06-04-19 09:10	1.0 ft	626934-001
BH12A	S	06-04-19 09:15	1.5 ft	626934-002

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda CTB

Project ID:
Work Order Number(s): *626934*

Report Date: *11-JUN-19*
Date Received: *06/07/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3091758 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 626934

LT Environmental, Inc., Arvada, CO

Project Name: Remuda CTB

Project Id:
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Fri Jun-07-19 11:40 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	626934-001		626934-002					
	Field Id:	BH12		BH12A					
	Depth:	1.0- ft		1.5- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Jun-04-19 09:10		Jun-04-19 09:15					
BTEX by EPA 8021B	***Extracted:***	Jun-07-19 15:45		Jun-07-19 15:45					
	Analyzed:	Jun-08-19 01:01		Jun-08-19 01:20					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00200	0.00200				
Toluene		<0.00201	0.00201	<0.00200	0.00200				
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200				
m,p-Xylenes		<0.00402	0.00402	<0.00399	0.00399				
o-Xylene		<0.00201	0.00201	<0.00200	0.00200				
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200				
Total BTEX		<0.00201	0.00201	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Jun-07-19 15:30		Jun-07-19 15:30					
	Analyzed:	Jun-07-19 18:33		Jun-07-19 18:39					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		443	49.5	473	49.5				
TPH by SW8015 Mod	***Extracted:***	Jun-07-19 16:00		Jun-07-19 16:00					
	Analyzed:	Jun-08-19 02:45		Jun-08-19 03:10					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		27.8	15.0	28.4	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0				
Total TPH		27.8	15.0	28.4	15.0				
Total GRO-DRO		27.8	15.0	28.4	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 626934

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH12**	Matrix:	Soil	Date Received:	06.07.19 11.40
Lab Sample Id:	626934-001	Date Collected:	06.04.19 09.10	Sample Depth:	1.0 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.07.19 15.30	Basis:	Wet Weight
Seq Number:	3091686				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**443**	49.5	mg/kg	06.07.19 18.33		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091704				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.08.19 02.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	**27.8**	15.0	mg/kg	06.08.19 02.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.08.19 02.45	U	1
Total TPH	PHC635	**27.8**	15.0	mg/kg	06.08.19 02.45		1
Total GRO-DRO	PHC628	**27.8**	15.0	mg/kg	06.08.19 02.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	06.08.19 02.45	
o-Terphenyl	84-15-1	94	%	70-135	06.08.19 02.45	

Certificate of Analytical Results 626934

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH12**	Matrix:	Soil	Date Received:	06.07.19 11.40
Lab Sample Id:	626934-001	Date Collected:	06.04.19 09.10	Sample Depth:	1.0 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 15.45	Basis:	Wet Weight
Seq Number:	3091758				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.08.19 01.01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.08.19 01.01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.08.19 01.01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.08.19 01.01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.08.19 01.01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.08.19 01.01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.08.19 01.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	06.08.19 01.01	
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.08.19 01.01	

Certificate of Analytical Results 626934

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH12A**	Matrix:	Soil	Date Received:	06.07.19 11.40
Lab Sample Id:	626934-002	Date Collected:	06.04.19 09.15	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.07.19 15.30	Basis:	Wet Weight
Seq Number:	3091686				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**473**	49.5	mg/kg	06.07.19 18.39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.07.19 16.00	Basis:	Wet Weight
Seq Number:	3091704				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.08.19 03.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	**28.4**	15.0	mg/kg	06.08.19 03.10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.08.19 03.10	U	1
Total TPH	PHC635	**28.4**	15.0	mg/kg	06.08.19 03.10		1
Total GRO-DRO	PHC628	**28.4**	15.0	mg/kg	06.08.19 03.10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	06.08.19 03.10	
o-Terphenyl	84-15-1	87	%	70-135	06.08.19 03.10	

Certificate of Analytical Results 626934

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH12A**	Matrix:	Soil	Date Received:	06.07.19 11.40
Lab Sample Id:	626934-002	Date Collected:	06.04.19 09.15	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	06.07.19 15.45	Basis:	Wet Weight
Seq Number:	3091758				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 01.20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 01.20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.19 01.20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.08.19 01.20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.19 01.20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.19 01.20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.19 01.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.08.19 01.20	
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.08.19 01.20	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 626934

LT Environmental, Inc.

Remuda CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3091686 — Matrix: Solid — Date Prep: 06.07.19
MB Sample Id: 7679458-1-BLK — LCS Sample Id: 7679458-1-BKS — LCSD Sample Id: 7679458-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	245	98	90-110	1	20	mg/kg	06.07.19 18:07	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3091686 — Matrix: Soil — Date Prep: 06.07.19
Parent Sample Id: 626930-001 — MS Sample Id: 626930-001 S — MSD Sample Id: 626930-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	50.8	248	312	105	304	102	90-110	3	20	mg/kg	06.07.19 18:23	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3091686 — Matrix: Soil — Date Prep: 06.07.19
Parent Sample Id: 626930-009 — MS Sample Id: 626930-009 S — MSD Sample Id: 626930-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.857	250	259	104	252	101	90-110	3	20	mg/kg	06.07.19 19:36	

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3091704 — Matrix: Solid — Date Prep: 06.07.19
MB Sample Id: 7679504-1-BLK — LCS Sample Id: 7679504-1-BKS — LCSD Sample Id: 7679504-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	10.7	1000	1190	119	1190	119	70-135	0	20	mg/kg	06.08.19 00:41	
Diesel Range Organics (DRO)	<8.13	1000	1160	116	1190	119	70-135	3	20	mg/kg	06.08.19 00:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		120		120		70-135	%	06.08.19 00:41
o-Terphenyl	94		121		111		70-135	%	06.08.19 00:41

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 626934

LT Environmental, Inc.

Remuda CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3091704 Matrix: Soil Date Prep: 06.07.19
Parent Sample Id: 626933-005 MS Sample Id: 626933-005 S MSD Sample Id: 626933-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	13.6	997	1160	115	1200	119	70-135	3	20	mg/kg	06.08.19 01:56	
Diesel Range Organics (DRO)	8.96	997	1110	110	1150	114	70-135	4	20	mg/kg	06.08.19 01:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		119		70-135	%	06.08.19 01:56
o-Terphenyl	111		113		70-135	%	06.08.19 01:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3091758 Matrix: Solid Date Prep: 06.07.19
MB Sample Id: 7679574-1-BLK LCS Sample Id: 7679574-1-BKS LCSD Sample Id: 7679574-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0939	94	0.0997	99	70-130	6	35	mg/kg	06.07.19 17:09	
Toluene	<0.000453	0.0994	0.0936	94	0.0987	98	70-130	5	35	mg/kg	06.07.19 17:09	
Ethylbenzene	<0.000561	0.0994	0.104	105	0.109	108	70-130	5	35	mg/kg	06.07.19 17:09	
m,p-Xylenes	<0.00101	0.199	0.213	107	0.224	111	70-130	5	35	mg/kg	06.07.19 17:09	
o-Xylene	<0.000342	0.0994	0.104	105	0.109	108	70-130	5	35	mg/kg	06.07.19 17:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		101		102		70-130	%	06.07.19 17:09
4-Bromofluorobenzene	87		105		106		70-130	%	06.07.19 17:09

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3091758 Matrix: Soil Date Prep: 06.07.19
Parent Sample Id: 626141-011 MS Sample Id: 626141-011 S MSD Sample Id: 626141-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.0785	79	0.0993	100	70-130	23	35	mg/kg	06.07.19 17:49	
Toluene	0.000655	0.100	0.0873	87	0.0982	98	70-130	12	35	mg/kg	06.07.19 17:49	
Ethylbenzene	<0.000565	0.100	0.0920	92	0.106	107	70-130	14	35	mg/kg	06.07.19 17:49	
m,p-Xylenes	<0.00101	0.200	0.183	92	0.214	108	70-130	16	35	mg/kg	06.07.19 17:49	
o-Xylene	0.000403	0.100	0.0897	89	0.104	104	70-130	15	35	mg/kg	06.07.19 17:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		109		70-130	%	06.07.19 17:49
4-Bromofluorobenzene	76		98		70-130	%	06.07.19 17:49

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 6026934

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Ashley Ager	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178 Email:		aager@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: 24hr	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT

Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.5/0.3	Thermometer ID	
Received Intact:	(Yes) No	RE	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH12	S	06/04/19	0910	1.0'	1	X	X	X
BH12A	S		0915	1.5'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

discrete
discrete

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 Tl 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 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
		06-06-19 15:35	2		6/7/19 1140
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Final 1.000
Page 13 of 14
Released to Imaging: 2/10/2026 2:25:28 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/07/2019 11:40:00 AM

Work Order #: 626934

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Katie Lowe Date: 06/07/2019

Checklist reviewed by: Jessica Kramer Date: 06/07/2019

Jessica Kramer

Analytical Report 628180

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

2RP-4958

21-JUN-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

21-JUN-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628180**
Remuda Basin CTB
Project Address: Delaware Basin

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 628180. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 628180 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH15	S	06-18-19 11:20	0.5 ft	628180-001
BH15A	S	06-18-19 11:25	1 ft	628180-002
BH16	S	06-18-19 11:30	0.5 ft	628180-003
BH16A	S	06-18-19 11:35	1 ft	628180-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *2RP-4958*
Work Order Number(s): *628180*

Report Date: *21-JUN-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3092947 TPH by SW8015 Mod
Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 628180-004.

Batch: LBA-3093077 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 628180-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Benzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 628180-001, -002, -003, -004.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Received by OCD: 12/2/2025 10:49:05 AM

Certificate of Analysis Summary 628180

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 2RP-4958
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 21-JUN-19
Project Manager: Jessica Kramer

Analysis Requested															
	Lab Id:	628180-001		628180-002		628180-003		628180-004							
	Field Id:	BH15		BH15A		BH16		BH16A							
	Depth:	0.5- ft		1- ft		0.5- ft		1- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL							
	Sampled:	Jun-18-19 11:20		Jun-18-19 11:25		Jun-18-19 11:30		Jun-18-19 11:35							
BTEX by EPA 8021B	***Extracted:***	Jun-19-19 16:00		Jun-19-19 16:00		Jun-19-19 16:00		Jun-19-19 16:00							
	Analyzed:	Jun-20-19 15:55		Jun-20-19 16:16		Jun-20-19 16:36		Jun-20-19 16:56							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201						
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201						
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201						
m,p-Xylenes		<0.00399	0.00399	<0.00400	0.00400	<0.00401	0.00401	<0.00402	0.00402						
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201						
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201						
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201						
Chloride by EPA 300	***Extracted:***	Jun-19-19 15:50		Jun-19-19 15:50		Jun-19-19 15:50		Jun-19-19 15:50							
	Analyzed:	Jun-19-19 17:38		Jun-19-19 17:42		Jun-20-19 14:23		Jun-20-19 17:08							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		303	5.03	889	4.97	15.2	4.98	49.0	4.95						
TPH by SW8015 Mod	***Extracted:***	Jun-19-19 17:00		Jun-19-19 17:00		Jun-19-19 17:00		Jun-19-19 17:00							
	Analyzed:	Jun-20-19 00:42		Jun-20-19 01:55		Jun-20-19 02:19		Jun-20-19 02:43							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0						
Diesel Range Organics (DRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	27.1	15.0						
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0						
Total TPH		<15.0	15.0	<14.9	14.9	<15.0	15.0	27.1	15.0						
Total GRO-DRO		<15.0	15.0	<14.9	14.9	<15.0	15.0	27.1	15.0						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant

Final 1.000

Released to Imaging: 2/10/2026 2:25:28 PM

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH15**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-001	Date Collected:	06.18.19 11.20	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 15.50	Basis:	Wet Weight
Seq Number:	3092944				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**303**	5.03	mg/kg	06.19.19 17.38		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.20.19 00.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.20.19 00.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.20.19 00.42	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.20.19 00.42	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.20.19 00.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	06.20.19 00.42	
o-Terphenyl	84-15-1	87	%	70-135	06.20.19 00.42	

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH15**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-001	Date Collected:	06.18.19 11.20	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.19 15.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.19 15.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.20.19 15.55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.20.19 15.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.20.19 15.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.20.19 15.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.20.19 15.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.20.19 15.55	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.20.19 15.55	

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH15A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-002	Date Collected:	06.18.19 11.25	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 15.50	Basis:	Wet Weight
Seq Number:	3092944				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**889**	4.97	mg/kg	06.19.19 17.42		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.20.19 01.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.20.19 01.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.20.19 01.55	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.20.19 01.55	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.20.19 01.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.20.19 01.55	
o-Terphenyl	84-15-1	82	%	70-135	06.20.19 01.55	

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH15A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-002	Date Collected:	06.18.19 11.25	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.19 16.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.19 16.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.20.19 16.16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.20.19 16.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.20.19 16.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.20.19 16.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.20.19 16.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.20.19 16.16	
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.20.19 16.16	

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH16**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-003	Date Collected:	06.18.19 11.30	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 15.50	Basis:	Wet Weight
Seq Number:	3092944				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.2**	4.98	mg/kg	06.20.19 14.23		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.20.19 02.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.20.19 02.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.20.19 02.19	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.20.19 02.19	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.20.19 02.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.20.19 02.19	
o-Terphenyl	84-15-1	78	%	70-135	06.20.19 02.19	

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH16**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-003	Date Collected:	06.18.19 11.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.19 16.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.19 16.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.20.19 16.36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.20.19 16.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.20.19 16.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.20.19 16.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.20.19 16.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.20.19 16.36	
4-Bromofluorobenzene	460-00-4	119	%	70-130	06.20.19 16.36	

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH16A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-004	Date Collected:	06.18.19 11.35	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 15.50	Basis:	Wet Weight
Seq Number:	3092944				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**49.0**	4.95	mg/kg	06.20.19 17.08		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.20.19 02.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	**27.1**	15.0	mg/kg	06.20.19 02.43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.20.19 02.43	U	1
Total TPH	PHC635	**27.1**	15.0	mg/kg	06.20.19 02.43		1
Total GRO-DRO	PHC628	**27.1**	15.0	mg/kg	06.20.19 02.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	06.20.19 02.43	
o-Terphenyl	84-15-1	67	%	70-135	06.20.19 02.43	**

Certificate of Analytical Results 628180

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**BH16A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628180-004	Date Collected:	06.18.19 11.35	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.20.19 16.56	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.20.19 16.56	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.20.19 16.56	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.20.19 16.56	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.20.19 16.56	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.20.19 16.56	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.20.19 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.20.19 16.56	
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.20.19 16.56	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 628180

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3092944 Matrix: Solid Date Prep: 06.19.19
MB Sample Id: 7680338-1-BLK LCS Sample Id: 7680338-1-BKS LCSD Sample Id: 7680338-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	250	100	251	100	90-110	0	20	mg/kg	06.19.19 16:44	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3092944 Matrix: Soil Date Prep: 06.19.19
Parent Sample Id: 628030-008 MS Sample Id: 628030-008 S MSD Sample Id: 628030-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	21.1	250	280	104	279	103	90-110	0	20	mg/kg	06.19.19 16:59	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3092944 Matrix: Soil Date Prep: 06.19.19
Parent Sample Id: 628181-002 MS Sample Id: 628181-002 S MSD Sample Id: 628181-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.96	248	259	104	257	104	90-110	1	20	mg/kg	06.19.19 18:07	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3092947 Matrix: Solid Date Prep: 06.19.19
MB Sample Id: 7680348-1-BLK LCS Sample Id: 7680348-1-BKS LCSD Sample Id: 7680348-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	916	92	963	96	70-135	5	20	mg/kg	06.19.19 23:53	
Diesel Range Organics (DRO)	<8.13	1000	873	87	876	88	70-135	0	20	mg/kg	06.19.19 23:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		101		105		70-135	%	06.19.19 23:53
o-Terphenyl	103		94		99		70-135	%	06.19.19 23:53

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

QC Summary 628180

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3092947 | Matrix: Soil | Date Prep: 06.19.19
Parent Sample Id: 628180-001 | MS Sample Id: 628180-001 S | MSD Sample Id: 628180-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	14.4	998	958	95	998	99	70-135	4	20	mg/kg	06.20.19 01:06	
Diesel Range Organics (DRO)	11.5	998	893	88	1020	101	70-135	13	20	mg/kg	06.20.19 01:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		96		70-135	%	06.20.19 01:06
o-Terphenyl	84		94		70-135	%	06.20.19 01:06

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3093077 | Matrix: Solid | Date Prep: 06.19.19
MB Sample Id: 7680360-1-BLK | LCS Sample Id: 7680360-1-BKS | LCSD Sample Id: 7680360-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.000606	0.100	0.0780	78	0.0833	83	70-130	7	35	mg/kg	06.20.19 10:41	
Toluene	0.000616	0.100	0.0767	77	0.0813	81	70-130	6	35	mg/kg	06.20.19 10:41	
Ethylbenzene	0.00182	0.100	0.0837	84	0.0900	90	70-130	7	35	mg/kg	06.20.19 10:41	
m,p-Xylenes	0.00108	0.200	0.165	83	0.175	88	70-130	6	35	mg/kg	06.20.19 10:41	
o-Xylene	0.000557	0.100	0.0813	81	0.0862	86	70-130	6	35	mg/kg	06.20.19 10:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		103		103		70-130	%	06.20.19 10:41
4-Bromofluorobenzene	102		96		98		70-130	%	06.20.19 10:41

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3093077 | Matrix: Soil | Date Prep: 06.19.19
Parent Sample Id: 628180-001 | MS Sample Id: 628180-001 S | MSD Sample Id: 628180-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0692	69	0.0651	65	70-130	6	35	mg/kg	06.21.19 00:18	X
Toluene	<0.00200	0.0998	0.0653	65	0.0680	68	70-130	4	35	mg/kg	06.21.19 00:18	X
Ethylbenzene	<0.00200	0.0998	0.0681	68	0.0758	76	70-130	11	35	mg/kg	06.21.19 00:18	X
m,p-Xylenes	<0.00101	0.200	0.133	67	0.150	75	70-130	12	35	mg/kg	06.21.19 00:18	X
o-Xylene	<0.000344	0.0998	0.0672	67	0.0765	77	70-130	13	35	mg/kg	06.21.19 00:18	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		70-130	%	06.21.19 00:18
4-Bromofluorobenzene	103		112		70-130	%	06.21.19 00:18

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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Chain of Custody

Work Order No: 428180

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	bbelill@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	2RP-4958	Routine ☐	
P.O. Number:	01291815 2	Rush: 24hr	
Sampler's Name:	Benjamin Belill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.5/0.3	Thermometer ID:	BE	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH 1S	S	6/18/19	1120	0.5'	1	X	X	X
BH 1S A			1125	1'		X	X	X
BH 16			1130	0.5'		X	X	X
BH 16A			1135	1'		X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

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 Tl 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 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	B.T. Belill		6/18/19 @ 15:10			
2					Fedex	06/18/19 15:
3					Bar	06/19/19
4						
5						
6						

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 17 of 18

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 11:40:00 AM

Work Order #: 628180

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 06/19/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06/19/2019

Jessica Kramer

Analytical Report 628184

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB (2RP-4958)

012918152

21-JUN-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

21-JUN-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628184**
Remuda Basin CTB (2RP-4958)
Project Address: Delaware Basin

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 628184. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 628184 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH13	S	06-17-19 13:06	0.5 ft	628184-001
BH13A	S	06-17-19 13:11	1 ft	628184-002
BH14	S	06-17-19 13:14	0.5 ft	628184-003
BH14A	S	06-17-19 13:15	1 ft	628184-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB (2RP-4958)

Project ID: *012918152*
Work Order Number(s): *628184*

Report Date: *21-JUN-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093077 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Received by OCD: 12/2/2025 10:49:05 AM

Certificate of Analysis Summary 628184

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB (2RP-4958)

Project Id: 012918152
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 21-JUN-19
Project Manager: Jessica Kramer

Analysis Requested															
	Lab Id:	628184-001		628184-002		628184-003		628184-004							
	Field Id:	BH13		BH13A		BH14		BH14A							
	Depth:	0.5- ft		1- ft		0.5- ft		1- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL							
	Sampled:	Jun-17-19 13:06		Jun-17-19 13:11		Jun-17-19 13:14		Jun-17-19 13:15							
BTEX by EPA 8021B	***Extracted:***	Jun-19-19 16:00		Jun-19-19 16:00		Jun-19-19 16:00		Jun-19-19 16:00							
	Analyzed:	Jun-20-19 21:54		Jun-20-19 22:17		Jun-20-19 22:37		Jun-20-19 22:57							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200						
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200						
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200						
m,p-Xylenes		<0.00398	0.00398	<0.00400	0.00400	<0.00398	0.00398	<0.00399	0.00399						
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200						
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200						
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200						
Chloride by EPA 300	***Extracted:***	Jun-19-19 16:10		Jun-19-19 16:10		Jun-19-19 16:10		Jun-19-19 16:10							
	Analyzed:	Jun-20-19 14:07		Jun-19-19 22:16		Jun-20-19 14:14		Jun-19-19 22:30							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		38.0	5.05	154	50.1	16.8	4.97	176	50.4						
TPH by SW8015 Mod	***Extracted:***	Jun-19-19 17:00		Jun-19-19 17:00		Jun-19-19 17:00		Jun-19-19 17:00							
	Analyzed:	Jun-20-19 07:10		Jun-20-19 07:34		Jun-20-19 07:59		Jun-20-19 08:23							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0						
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0						
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0						
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0						
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Jessica Kramer
Project Assistant

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Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH13**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-001	Date Collected:	06.17.19 13.06	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 16.10	Basis:	Wet Weight
Seq Number:	3092962				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38.0**	5.05	mg/kg	06.20.19 14.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.20.19 07.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.20.19 07.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.20.19 07.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.20.19 07.10	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.20.19 07.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	06.20.19 07.10	
o-Terphenyl	84-15-1	95	%	70-135	06.20.19 07.10	

Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH13**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-001	Date Collected:	06.17.19 13.06	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.20.19 21.54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.20.19 21.54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.20.19 21.54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.20.19 21.54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.20.19 21.54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.20.19 21.54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.20.19 21.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.20.19 21.54	
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.20.19 21.54	

Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH13A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-002	Date Collected:	06.17.19 13.11	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 16.10	Basis:	Wet Weight
Seq Number:	3092962				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**154**	50.1	mg/kg	06.19.19 22.16		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.20.19 07.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.20.19 07.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.20.19 07.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.20.19 07.34	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.20.19 07.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	06.20.19 07.34	
o-Terphenyl	84-15-1	88	%	70-135	06.20.19 07.34	

Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH13A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-002	Date Collected:	06.17.19 13.11	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.19 22.17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.19 22.17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.20.19 22.17	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.20.19 22.17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.20.19 22.17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.20.19 22.17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.20.19 22.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	06.20.19 22.17	
4-Bromofluorobenzene	460-00-4	122	%	70-130	06.20.19 22.17	

Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH14**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-003	Date Collected:	06.17.19 13.14	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 16.10	Basis:	Wet Weight
Seq Number:	3092962				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.8**	4.97	mg/kg	06.20.19 14.14		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.20.19 07.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.20.19 07.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.20.19 07.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.20.19 07.59	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.20.19 07.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.20.19 07.59	
o-Terphenyl	84-15-1	81	%	70-135	06.20.19 07.59	

Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH14**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-003	Date Collected:	06.17.19 13.14	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.20.19 22.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.20.19 22.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.20.19 22.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.20.19 22.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.20.19 22.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.20.19 22.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.20.19 22.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	06.20.19 22.37	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.20.19 22.37	

Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH14A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-004	Date Collected:	06.17.19 13.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.19.19 16.10	Basis:	Wet Weight
Seq Number:	3092962				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**176**	50.4	mg/kg	06.19.19 22.30		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.19.19 17.00	Basis:	Wet Weight
Seq Number:	3092947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.20.19 08.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.20.19 08.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.20.19 08.23	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.20.19 08.23	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.20.19 08.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	06.20.19 08.23	
o-Terphenyl	84-15-1	90	%	70-135	06.20.19 08.23	

Certificate of Analytical Results 628184

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB (2RP-4958)

Sample Id:	**BH14A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628184-004	Date Collected:	06.17.19 13.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.19.19 16.00	Basis:	Wet Weight
Seq Number:	3093077				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.20.19 22.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.20.19 22.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.20.19 22.57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.20.19 22.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.20.19 22.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.20.19 22.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.20.19 22.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.20.19 22.57	
4-Bromofluorobenzene	460-00-4	108	%	70-130	06.20.19 22.57	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 628184

LT Environmental, Inc.

Remuda Basin CTB (2RP-4958)

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3092962 Matrix: Solid Date Prep: 06.19.19
MB Sample Id: 7680340-1-BLK LCS Sample Id: 7680340-1-BKS LCSD Sample Id: 7680340-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	246	98	246	98	90-110	0	20	mg/kg	06.19.19 21:32	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3092962 Matrix: Soil Date Prep: 06.19.19
Parent Sample Id: 628183-003 MS Sample Id: 628183-003 S MSD Sample Id: 628183-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	201	252	441	95	441	95	90-110	0	20	mg/kg	06.19.19 21:54	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3092962 Matrix: Soil Date Prep: 06.19.19
Parent Sample Id: 628185-006 MS Sample Id: 628185-006 S MSD Sample Id: 628185-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	79.2	248	333	102	332	102	90-110	0	20	mg/kg	06.19.19 23:35	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3092947 Matrix: Solid Date Prep: 06.19.19
MB Sample Id: 7680348-1-BLK LCS Sample Id: 7680348-1-BKS LCSD Sample Id: 7680348-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	916	92	963	96	70-135	5	20	mg/kg	06.19.19 23:53	
Diesel Range Organics (DRO)	<8.13	1000	873	87	876	88	70-135	0	20	mg/kg	06.19.19 23:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		101		105		70-135	%	06.19.19 23:53
o-Terphenyl	103		94		99		70-135	%	06.19.19 23:53

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 628184

LT Environmental, Inc.

Remuda Basin CTB (2RP-4958)

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3092947 — Matrix: Soil — Date Prep: 06.19.19
Parent Sample Id: 628180-001 — MS Sample Id: 628180-001 S — MSD Sample Id: 628180-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	14.4	998	958	95	998	99	70-135	4	20	mg/kg	06.20.19 01:06	
Diesel Range Organics (DRO)	11.5	998	893	88	1020	101	70-135	13	20	mg/kg	06.20.19 01:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		96		70-135	%	06.20.19 01:06
o-Terphenyl	84		94		70-135	%	06.20.19 01:06

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3093077 — Matrix: Solid — Date Prep: 06.19.19
MB Sample Id: 7680360-1-BLK — LCS Sample Id: 7680360-1-BKS — LCSD Sample Id: 7680360-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.000606	0.100	0.0780	78	0.0833	83	70-130	7	35	mg/kg	06.20.19 10:41	
Toluene	0.000616	0.100	0.0767	77	0.0813	81	70-130	6	35	mg/kg	06.20.19 10:41	
Ethylbenzene	0.00182	0.100	0.0837	84	0.0900	90	70-130	7	35	mg/kg	06.20.19 10:41	
m,p-Xylenes	0.00108	0.200	0.165	83	0.175	88	70-130	6	35	mg/kg	06.20.19 10:41	
o-Xylene	0.000557	0.100	0.0813	81	0.0862	86	70-130	6	35	mg/kg	06.20.19 10:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		103		103		70-130	%	06.20.19 10:41
4-Bromofluorobenzene	102		96		98		70-130	%	06.20.19 10:41

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3093077 — Matrix: Soil — Date Prep: 06.19.19
Parent Sample Id: 628180-001 — MS Sample Id: 628180-001 S — MSD Sample Id: 628180-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0692	69	0.0651	65	70-130	6	35	mg/kg	06.21.19 00:18	X
Toluene	<0.00200	0.0998	0.0653	65	0.0680	68	70-130	4	35	mg/kg	06.21.19 00:18	X
Ethylbenzene	<0.00200	0.0998	0.0681	68	0.0758	76	70-130	11	35	mg/kg	06.21.19 00:18	X
m,p-Xylenes	<0.00101	0.200	0.133	67	0.150	75	70-130	12	35	mg/kg	06.21.19 00:18	X
o-Xylene	<0.000344	0.0998	0.0672	67	0.0765	77	70-130	13	35	mg/kg	06.21.19 00:18	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		70-130	%	06.21.19 00:18
4-Bromofluorobenzene	103		112		70-130	%	06.21.19 00:18

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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Chain of Custody

Work Order No: 1029842

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	bbelill@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB (2RP-4958)	Turn Around	
Project Number:	012918152	Routine ☐	
P.O. Number:		Rush: 24hr	
Sampler's Name:	Benjamin Belill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.5/1.3	Thermometer ID:	IR6	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH13	S	6/17/2019	1306	0.5'	1	X	X	X
BH13A	S	6/17/2019	1311	1'	1	X	X	X
BH14	S	6/17/2019	1314	0.5'	1	X	X	X
BH14A	S	6/17/2019	1315	1'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

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 Tl 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 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		Anna Byers Fed Ex	0915 @ 6/13/19	2	Anna Byers		6/18/19 09:40
3			6/18/19 14:00	4			6/19/19 1100
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 11:40:00 AM

Work Order #: 628184

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 06/19/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06/19/2019

Jessica Kramer

Analytical Report 633251

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda CTB

2RP-4958

12-AUG-19

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

12-AUG-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **633251**
Remuda CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 633251. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 633251 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

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Sample Cross Reference 633251

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS07	S	08-06-19 09:55	1 ft	633251-001
FS08	S	08-06-19 09:50	0.5 ft	633251-002

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda CTB

Project ID: *2RP-4958*
Work Order Number(s): *633251*

Report Date: *12-AUG-19*
Date Received: *08/06/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3098254 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 633251-001.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 633251-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).
Benzene, Toluene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 633251-001, -002.
The Laboratory Control Sample for Toluene, Benzene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 633251

LT Environmental, Inc., Arvada, CO

Project Name: Remuda CTB

Project Id: 2RP-4958
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Aug-06-19 04:00 pm
Report Date: 12-AUG-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	633251-001		633251-002					
	Field Id:	FS07		FS08					
	Depth:	1- ft		0.5- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Aug-06-19 09:55		Aug-06-19 09:50					
BTEX by EPA 8021B	***Extracted:***	Aug-08-19 12:00		Aug-08-19 12:00					
SUB: T104704400-18-16	***Analyzed:***	Aug-09-19 08:31		Aug-09-19 08:51					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00198	0.00198	<0.00199	0.00199				
Toluene		<0.00198	0.00198	<0.00199	0.00199				
Ethylbenzene		0.00266	0.00198	<0.00199	0.00199				
m,p-Xylenes		<0.00397	0.00397	<0.00398	0.00398				
o-Xylene		<0.00198	0.00198	<0.00199	0.00199				
Total Xylenes		<0.00198	0.00198	<0.00199	0.00199				
Total BTEX		0.00266	0.00198	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Aug-08-19 13:30		Aug-08-19 13:30					
SUB: T104704400-18-16	***Analyzed:***	Aug-08-19 16:53		Aug-08-19 17:08					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		209	50.0	1150	50.0				
TPH by SW8015 Mod	***Extracted:***	Aug-09-19 15:00		Aug-09-19 15:00					
SUB: T104704400-18-16	***Analyzed:***	Aug-11-19 02:44		Aug-11-19 03:40					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	17.3	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	17.3	15.0				
Total GRO-DRO		<15.0	15.0	17.3	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 633251

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	08.06.19 16.00
Lab Sample Id:	633251-001	Date Collected:	08.06.19 09.55	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.08.19 13.30	Basis:	Wet Weight
Seq Number:	3097977			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**209**	50.0	mg/kg	08.08.19 16.53		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.09.19 15.00	Basis:	Wet Weight
Seq Number:	3098133			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.11.19 02.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.11.19 02.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	08.11.19 02.44	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.11.19 02.44	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	08.11.19 02.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	08.11.19 02.44	
o-Terphenyl	84-15-1	94	%	70-135	08.11.19 02.44	

Certificate of Analytical Results 633251

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	08.06.19 16.00
Lab Sample Id:	633251-001	Date Collected:	08.06.19 09.55	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	ALG	Date Prep:	08.08.19 12.00	Basis:	Wet Weight
Seq Number:	3098254			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.09.19 08.31	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.09.19 08.31	U	1
Ethylbenzene	100-41-4	**0.00266**	0.00198	mg/kg	08.09.19 08.31		1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.09.19 08.31	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.09.19 08.31	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.09.19 08.31	U	1
Total BTEX		**0.00266**	0.00198	mg/kg	08.09.19 08.31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.09.19 08.31	
4-Bromofluorobenzene	460-00-4	240	%	70-130	08.09.19 08.31	**

Certificate of Analytical Results 633251

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	08.06.19 16.00
Lab Sample Id:	633251-002	Date Collected:	08.06.19 09.50	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.08.19 13.30	Basis:	Wet Weight
Seq Number:	3097977			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1150**	50.0	mg/kg	08.08.19 17.08		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.09.19 15.00	Basis:	Wet Weight
Seq Number:	3098133			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.11.19 03.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	**17.3**	15.0	mg/kg	08.11.19 03.40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	08.11.19 03.40	U	1
Total TPH	PHC635	**17.3**	15.0	mg/kg	08.11.19 03.40		1
Total GRO-DRO	PHC628	**17.3**	15.0	mg/kg	08.11.19 03.40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	08.11.19 03.40	
o-Terphenyl	84-15-1	98	%	70-135	08.11.19 03.40	

Certificate of Analytical Results 633251

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	08.06.19 16.00
Lab Sample Id:	633251-002	Date Collected:	08.06.19 09.50	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	ALG	Date Prep:	08.08.19 12.00	Basis:	Wet Weight
Seq Number:	3098254			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.09.19 08.51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.09.19 08.51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.09.19 08.51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.09.19 08.51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.09.19 08.51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.09.19 08.51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.09.19 08.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.09.19 08.51	
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.09.19 08.51	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 633251

LT Environmental, Inc.

Remuda CTB

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3097977 Matrix: Solid Date Prep: 08.08.19
MB Sample Id: 7683800-1-BLK LCS Sample Id: 7683800-1-BKS LCSD Sample Id: 7683800-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	249	100	90-110	1	20	mg/kg	08.08.19 13:56	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3097977 Matrix: Soil Date Prep: 08.08.19
Parent Sample Id: 633408-001 MS Sample Id: 633408-001 S MSD Sample Id: 633408-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.4	250	266	100	266	100	90-110	0	20	mg/kg	08.08.19 14:15	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3097977 Matrix: Soil Date Prep: 08.08.19
Parent Sample Id: 633409-003 MS Sample Id: 633409-003 S MSD Sample Id: 633409-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.3	248	258	98	258	98	90-110	0	20	mg/kg	08.08.19 15:44	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3098133 Matrix: Solid Date Prep: 08.09.19
MB Sample Id: 7683942-1-BLK LCS Sample Id: 7683942-1-BKS LCSD Sample Id: 7683942-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1100	110	1130	113	70-135	3	20	mg/kg	08.11.19 02:06	
Diesel Range Organics (DRO)	<8.13	1000	993	99	1030	103	70-135	4	20	mg/kg	08.11.19 02:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		120		124		70-135	%	08.11.19 02:06
o-Terphenyl	91		98		107		70-135	%	08.11.19 02:06

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 633251

LT Environmental, Inc.

Remuda CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3098133 | Matrix: Soil | Date Prep: 08.09.19
Parent Sample Id: 633251-001 | MS Sample Id: 633251-001 S | MSD Sample Id: 633251-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.98	997	1190	119	1150	115	70-135	3	20	mg/kg	08.11.19 03:02	
Diesel Range Organics (DRO)	<8.10	997	1150	115	1170	117	70-135	2	20	mg/kg	08.11.19 03:02	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		126		70-135	%	08.11.19 03:02
o-Terphenyl	116		118		70-135	%	08.11.19 03:02

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3098254 | Matrix: Solid | Date Prep: 08.08.19
MB Sample Id: 7683789-1-BLK | LCS Sample Id: 7683789-1-BKS | LCSD Sample Id: 7683789-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.0911	91	0.0735	74	70-130	21	35	mg/kg	08.09.19 06:52	
Toluene	<0.000456	0.100	0.0860	86	0.0708	71	70-130	19	35	mg/kg	08.09.19 06:52	
Ethylbenzene	<0.00200	0.100	0.0871	87	0.0791	79	70-130	10	35	mg/kg	08.09.19 06:52	
m,p-Xylenes	<0.00101	0.200	0.174	87	0.153	77	70-130	13	35	mg/kg	08.09.19 06:52	
o-Xylene	<0.000344	0.100	0.0906	91	0.0816	82	70-130	10	35	mg/kg	08.09.19 06:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		102		103		70-130	%	08.09.19 06:52
4-Bromofluorobenzene	108		114		112		70-130	%	08.09.19 06:52

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3098254 | Matrix: Soil | Date Prep: 08.08.19
Parent Sample Id: 633251-001 | MS Sample Id: 633251-001 S | MSD Sample Id: 633251-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0731	74	0.0691	69	70-130	6	35	mg/kg	08.09.19 07:32	X
Toluene	<0.00199	0.0994	0.0704	71	0.0678	68	70-130	4	35	mg/kg	08.09.19 07:32	X
Ethylbenzene	0.00266	0.0994	0.0786	76	0.0759	74	70-130	3	35	mg/kg	08.09.19 07:32	
m,p-Xylenes	<0.00101	0.199	0.152	76	0.148	74	70-130	3	35	mg/kg	08.09.19 07:32	
o-Xylene	0.00193	0.0994	0.0811	80	0.0807	79	70-130	0	35	mg/kg	08.09.19 07:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		103		70-130	%	08.09.19 07:32
4-Bromofluorobenzene	112		115		70-130	%	08.09.19 07:32

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

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Chain of Custody

Work Order No: ~~633249~~ 633251 am 8/7/19

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB	Turn Around	
Project Number:		Routine	☐
P.O. Number:	2RP-4958	Rush:	4 day
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	2.2	Thermometer ID	
Received Intact:	Yes No	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
FS07	S	08/06/19	0955	1'	1	X	X	X	composite
FS08	S	08/06/19	0950	0.5'	1	X	X	X	composite

ANALYSIS REQUEST

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl 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 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		8/6/19 10:00	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Final 1.000
Page 13 of 16
Released to Imaging: 2/10/2026 2:25:28 PM

Inter-Office Shipment

IOS Number **45737**

Date/Time: 08/07/19 10:20
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 7759305855567

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
633251-001	S	FS07	08/06/19 09:55	SW8015MOD_NM	TPH by SW8015 Mod	08/09/19	08/20/19	JKR	GRO-DRO PHCC10C28 PI	
633251-001	S	FS07	08/06/19 09:55	SW8021B	BTEX by EPA 8021B	08/09/19	08/20/19	JKR	BR4FBZ BZ BZME EBZ X	
633251-001	S	FS07	08/06/19 09:55	E300_CL	Chloride by EPA 300	08/09/19	02/02/20	JKR	CL	
633251-002	S	FS08	08/06/19 09:50	SW8021B	BTEX by EPA 8021B	08/09/19	08/20/19	JKR	BR4FBZ BZ BZME EBZ X	
633251-002	S	FS08	08/06/19 09:50	E300_CL	Chloride by EPA 300	08/09/19	02/02/20	JKR	CL	
633251-002	S	FS08	08/06/19 09:50	SW8015MOD_NM	TPH by SW8015 Mod	08/09/19	08/20/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 08/07/2019

Received By: Brianna Teel

Date Received: 08/08/2019 11:05

Cooler Temperature: 0.5

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 45737

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 08/07/2019 10:20 AM

Received By: Brianna Teel **Date Received:** 08/08/2019 11:05 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brianna Teel Date: 08/08/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08/06/2019 04:00:00 PM

Work Order #: 633251

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**No**	
#5 Custody Seals intact on sample bottles?	**No**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Subbed to Xenco Midland.
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 08/07/2019

Checklist reviewed by: Kalei Stout Date: 08/08/2019

Analytical Report 635229

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda CTB

012918152

28-OCT-19

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

28-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **635229**
Remuda CTB
Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 635229. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 635229 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH17	S	08-26-19 10:35	0.5 ft	635229-001
BH18	S	08-26-19 10:35	0.5 ft	635229-002
BH19	S	08-26-19 10:36	0.5 ft	635229-003
BH20	S	08-26-19 10:37	0.5 ft	635229-004
BH22	S	08-26-19 10:40	0.5 ft	635229-005
BH17A	S	08-26-19 13:00	1 ft	635229-006
BH18A	S	08-26-19 13:03	1 ft	635229-007
BH19A	S	08-26-19 13:05	1 ft	635229-008
BH20A	S	08-26-19 13:06	1 ft	635229-009
BH22A	S	08-26-19 13:13	1 ft	635229-010
BH21	S	08-27-19 10:09	0.5 ft	635229-011
BH23	S	08-27-19 10:11	0.5 ft	635229-012
BH21A	S	08-27-19 10:13	1 ft	635229-013
BH23A	S	08-27-19 10:19	1 ft	635229-014

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda CTB

Project ID: *012918152*
Work Order Number(s): *635229*

Report Date: *28-OCT-19*
Date Received: *08/27/2019*

Sample receipt non conformances and comments:

Per clients emails, corrected sample names below. NEW VERSION GENERATED. JK 09/10/19

SS01 ----- > BH13
SS02 ----- > BH14
SS03 ----- > BH15
SS04 ----- > BH16
SS06 ----- > BH18
SS01A --- > BH13A
SS02A --- > BH14A
SS03A --- > BH15A
SS04A --- > BH16A
SS06A --- > BH18A
SS05 ----- > BH17
SS07 ----- > BH19
SS05A --- > BH17A
SS07A --- > BH19A

Per cleints additional email, corrected sample names to match below. NEW VERSION GENERATED. JK 10/28/19
BH13 ->BH17
BH14-> BH18
BH15-> BH19
BH16->BH20
BH18->BH22
BH13A->BH17A
BH14A-> BH18A
BH15A->BH19A
BH16A->BH20A
BH18A->BH22a
BH17->BH21
BH19->BH23
BH17A->BH21A
BH19A->BH23A

Sample receipt non conformances and comments per sample:

None

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda CTB

Project ID: *012918152*
Work Order Number(s): *635229*

Report Date: *28-OCT-19*
Date Received: *08/27/2019*

Batch: LBA-3099983 Chloride by EPA 300
Lab Sample ID 635229-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 635229-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3100229 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 635229

LT Environmental, Inc., Arvada, CO

Project Name: Remuda CTB

Project Id: 012918152
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Tue Aug-27-19 12:35 pm
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	635229-001		635229-002		635229-003		635229-004		635229-005		635229-006	
	Field Id:	BH17		BH18		BH19		BH20		BH22		BH17A	
	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Aug-26-19 10:35		Aug-26-19 10:35		Aug-26-19 10:36		Aug-26-19 10:37		Aug-26-19 10:40		Aug-26-19 13:00	
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00	
	Analyzed:	Aug-30-19 02:09		Aug-30-19 02:29		Aug-30-19 02:49		Aug-30-19 03:09		Aug-30-19 04:28		Aug-30-19 04:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00400	0.00400	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00397	0.00397
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00	
	Analyzed:	Aug-28-19 17:01		Aug-28-19 17:07		Aug-28-19 17:33		Aug-28-19 17:39		Aug-28-19 17:14		Aug-28-19 17:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1960	50.5	2890	50.0	54.5	50.5	3440	49.9	14.1	4.98	5370	100
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00	
	Analyzed:	Aug-28-19 22:32		Aug-28-19 23:31		Aug-28-19 23:50		Aug-29-19 00:10		Aug-29-19 00:30		Aug-29-19 00:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<24.9	24.9	<24.9	24.9	<25.0	25.0	<24.9	24.9	<25.0	25.0	<25.0	25.0
Diesel Range Organics (DRO)		<24.9	24.9	<24.9	24.9	<25.0	25.0	<24.9	24.9	<25.0	25.0	25.1	25.0
Motor Oil Range Hydrocarbons (MRO)		<24.9	24.9	<24.9	24.9	<25.0	25.0	<24.9	24.9	<25.0	25.0	<25.0	25.0
Total TPH		<24.9	24.9	<24.9	24.9	<25.0	25.0	<24.9	24.9	<25.0	25.0	25.1	25.0
Total GRO-DRO		<24.9	24.9	<24.9	24.9	<25.0	25.0	<24.9	24.9	<25.0	25.0	25.1	25.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.002

Certificate of Analysis Summary 635229

LT Environmental, Inc., Arvada, CO

Project Name: Remuda CTB

Project Id: 012918152
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Tue Aug-27-19 12:35 pm
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	635229-007		635229-008		635229-009		635229-010		635229-011		635229-012	
	Field Id:	BH18A		BH19A		BH20A		BH22A		BH21		BH23	
	Depth:	1- ft		1- ft		1- ft		1- ft		0.5- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Aug-26-19 13:03		Aug-26-19 13:05		Aug-26-19 13:06		Aug-26-19 13:13		Aug-27-19 10:09		Aug-27-19 10:11	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00		Aug-28-19 13:00	
	Analyzed:	Aug-30-19 05:08		Aug-30-19 05:28		Aug-30-19 05:48		Aug-30-19 06:08		Aug-30-19 06:28		Aug-30-19 06:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00396	0.00396	<0.00398	0.00398	<0.00399	0.00399	<0.00400	0.00400
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00	
	Analyzed:	Aug-28-19 18:04		Aug-29-19 08:49		Aug-28-19 18:17		Aug-28-19 18:23		Aug-28-19 18:30		Aug-28-19 18:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7580	99.8	16.5	4.97	2710	50.5	15.7	5.00	2650	50.0	820	50.0
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00		Aug-28-19 15:00	
	Analyzed:	Aug-29-19 01:09		Aug-29-19 12:42		Aug-29-19 01:48		Aug-29-19 02:08		Aug-29-19 02:27		Aug-29-19 02:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<24.9	24.9	<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0
Diesel Range Organics (DRO)		44.8	24.9	<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	519	25.0
Motor Oil Range Hydrocarbons (MRO)		<24.9	24.9	<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	145	25.0
Total TPH		44.8	24.9	<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	664	25.0
Total GRO-DRO		44.8	24.9	<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	519	25.0

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Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 635229

LT Environmental, Inc., Arvada, CO

Project Name: Remuda CTB

Project Id: 012918152
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Tue Aug-27-19 12:35 pm
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	635229-013		635229-014					
	Field Id:	BH21A		BH23A					
	Depth:	1- ft		1- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Aug-27-19 10:13		Aug-27-19 10:19					
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Aug-28-19 13:00		Aug-28-19 13:00					
	Analyzed:	Aug-30-19 07:09		Aug-30-19 07:29					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00201	0.00201				
Toluene		<0.00200	0.00200	<0.00201	0.00201				
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201				
m,p-Xylenes		<0.00400	0.00400	<0.00402	0.00402				
o-Xylene		<0.00200	0.00200	<0.00201	0.00201				
Total Xylenes		<0.00200	0.00200	<0.00201	0.00201				
Total BTEX		<0.00200	0.00200	<0.00201	0.00201				
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Aug-29-19 09:15		Aug-29-19 09:15					
	Analyzed:	Aug-29-19 11:14		Aug-29-19 11:19					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		3440	49.8	1030	50.0				
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Aug-28-19 15:00		Aug-28-19 15:00					
	Analyzed:	Aug-29-19 03:07		Aug-29-19 03:26					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<25.0	25.0	<24.9	24.9				
Diesel Range Organics (DRO)		<25.0	25.0	430	24.9				
Motor Oil Range Hydrocarbons (MRO)		<25.0	25.0	122	24.9				
Total TPH		<25.0	25.0	552	24.9				
Total GRO-DRO		<25.0	25.0	430	24.9				

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Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id: **BH17** Matrix: Soil Date Received:08.27.19 12.35
Lab Sample Id: 635229-001 Date Collected: 08.26.19 10.35 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.28.19 15.00 Basis: Wet Weight
Seq Number: 3099983 SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1960**	50.5	mg/kg	08.28.19 17.01		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 08.28.19 15.00 Basis: Wet Weight
Seq Number: 3100069 SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<24.9	24.9	mg/kg	08.28.19 22.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<24.9	24.9	mg/kg	08.28.19 22.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<24.9	24.9	mg/kg	08.28.19 22.32	U	1
Total TPH	PHC635	<24.9	24.9	mg/kg	08.28.19 22.32	U	1
Total GRO-DRO	PHC628	<24.9	24.9	mg/kg	08.28.19 22.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	08.28.19 22.32	
o-Terphenyl	84-15-1	90	%	70-135	08.28.19 22.32	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH17**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-001	Date Collected:	08.26.19 10.35	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.30.19 02.09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.30.19 02.09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.30.19 02.09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.30.19 02.09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.30.19 02.09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.30.19 02.09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.30.19 02.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.30.19 02.09	
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.30.19 02.09	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH18**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-002	Date Collected:	08.26.19 10.35	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2890**	50.0	mg/kg	08.28.19 17.07		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<24.9	24.9	mg/kg	08.28.19 23.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<24.9	24.9	mg/kg	08.28.19 23.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<24.9	24.9	mg/kg	08.28.19 23.31	U	1
Total TPH	PHC635	<24.9	24.9	mg/kg	08.28.19 23.31	U	1
Total GRO-DRO	PHC628	<24.9	24.9	mg/kg	08.28.19 23.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	08.28.19 23.31	
o-Terphenyl	84-15-1	90	%	70-135	08.28.19 23.31	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH18**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-002	Date Collected:	08.26.19 10.35	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.19 02.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.19 02.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.19 02.29	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.30.19 02.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.19 02.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.19 02.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.19 02.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.30.19 02.29	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.30.19 02.29	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH19**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-003	Date Collected:	08.26.19 10.36	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**54.5**	50.5	mg/kg	08.28.19 17.33		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.28.19 23.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	08.28.19 23.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<25.0	25.0	mg/kg	08.28.19 23.50	U	1
Total TPH	PHC635	<25.0	25.0	mg/kg	08.28.19 23.50	U	1
Total GRO-DRO	PHC628	<25.0	25.0	mg/kg	08.28.19 23.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	08.28.19 23.50	
o-Terphenyl	84-15-1	84	%	70-135	08.28.19 23.50	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH19**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-003	Date Collected:	08.26.19 10.36	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.30.19 02.49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.30.19 02.49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.30.19 02.49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.30.19 02.49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.30.19 02.49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.30.19 02.49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.30.19 02.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.30.19 02.49	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.30.19 02.49	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH20**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-004	Date Collected:	08.26.19 10.37	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3440**	49.9	mg/kg	08.28.19 17.39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<24.9	24.9	mg/kg	08.29.19 00.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<24.9	24.9	mg/kg	08.29.19 00.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<24.9	24.9	mg/kg	08.29.19 00.10	U	1
Total TPH	PHC635	<24.9	24.9	mg/kg	08.29.19 00.10	U	1
Total GRO-DRO	PHC628	<24.9	24.9	mg/kg	08.29.19 00.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	08.29.19 00.10	
o-Terphenyl	84-15-1	87	%	70-135	08.29.19 00.10	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH20**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-004	Date Collected:	08.26.19 10.37	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.19 03.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.19 03.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.19 03.09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.30.19 03.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.19 03.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.19 03.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.19 03.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	08.30.19 03.09	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.30.19 03.09	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH22**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-005	Date Collected:	08.26.19 10.40	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.1**	4.98	mg/kg	08.28.19 17.14		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.29.19 00.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	08.29.19 00.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<25.0	25.0	mg/kg	08.29.19 00.30	U	1
Total TPH	PHC635	<25.0	25.0	mg/kg	08.29.19 00.30	U	1
Total GRO-DRO	PHC628	<25.0	25.0	mg/kg	08.29.19 00.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	08.29.19 00.30	
o-Terphenyl	84-15-1	84	%	70-135	08.29.19 00.30	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH22**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-005	Date Collected:	08.26.19 10.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.30.19 04.28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.30.19 04.28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.30.19 04.28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.30.19 04.28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.30.19 04.28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.30.19 04.28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.30.19 04.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	08.30.19 04.28	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.30.19 04.28	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH17A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-006	Date Collected:	08.26.19 13.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5370**	100	mg/kg	08.28.19 17.58		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.29.19 00.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**25.1**	25.0	mg/kg	08.29.19 00.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<25.0	25.0	mg/kg	08.29.19 00.49	U	1
Total TPH	PHC635	**25.1**	25.0	mg/kg	08.29.19 00.49		1
Total GRO-DRO	PHC628	**25.1**	25.0	mg/kg	08.29.19 00.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	08.29.19 00.49	
o-Terphenyl	84-15-1	87	%	70-135	08.29.19 00.49	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH17A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-006	Date Collected:	08.26.19 13.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.30.19 04.48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.30.19 04.48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.30.19 04.48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.30.19 04.48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.30.19 04.48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.30.19 04.48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.30.19 04.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.30.19 04.48	
1,4-Difluorobenzene	540-36-3	96	%	70-130	08.30.19 04.48	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH18A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-007	Date Collected:	08.26.19 13.03	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7580**	99.8	mg/kg	08.28.19 18.04		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<24.9	24.9	mg/kg	08.29.19 01.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	**44.8**	24.9	mg/kg	08.29.19 01.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<24.9	24.9	mg/kg	08.29.19 01.09	U	1
Total TPH	PHC635	**44.8**	24.9	mg/kg	08.29.19 01.09		1
Total GRO-DRO	PHC628	**44.8**	24.9	mg/kg	08.29.19 01.09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	08.29.19 01.09	
o-Terphenyl	84-15-1	86	%	70-135	08.29.19 01.09	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH18A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-007	Date Collected:	08.26.19 13.03	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.30.19 05.08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.30.19 05.08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.30.19 05.08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.30.19 05.08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.30.19 05.08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.30.19 05.08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.30.19 05.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.30.19 05.08	
1,4-Difluorobenzene	540-36-3	93	%	70-130	08.30.19 05.08	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH19A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-008	Date Collected:	08.26.19 13.05	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.5**	4.97	mg/kg	08.29.19 08.49		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<24.9	24.9	mg/kg	08.29.19 12.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<24.9	24.9	mg/kg	08.29.19 12.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<24.9	24.9	mg/kg	08.29.19 12.42	U	1
Total TPH	PHC635	<24.9	24.9	mg/kg	08.29.19 12.42	U	1
Total GRO-DRO	PHC628	<24.9	24.9	mg/kg	08.29.19 12.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	08.29.19 12.42	
o-Terphenyl	84-15-1	90	%	70-135	08.29.19 12.42	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH19A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-008	Date Collected:	08.26.19 13.05	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.19 05.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.19 05.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.19 05.28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.30.19 05.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.19 05.28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.19 05.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.19 05.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	08.30.19 05.28	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.30.19 05.28	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH20A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-009	Date Collected:	08.26.19 13.06	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2710**	50.5	mg/kg	08.28.19 18.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.29.19 01.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	08.29.19 01.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<25.0	25.0	mg/kg	08.29.19 01.48	U	1
Total TPH	PHC635	<25.0	25.0	mg/kg	08.29.19 01.48	U	1
Total GRO-DRO	PHC628	<25.0	25.0	mg/kg	08.29.19 01.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	08.29.19 01.48	
o-Terphenyl	84-15-1	86	%	70-135	08.29.19 01.48	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH20A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-009	Date Collected:	08.26.19 13.06	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.30.19 05.48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.30.19 05.48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.30.19 05.48	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.30.19 05.48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.30.19 05.48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.30.19 05.48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.30.19 05.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.30.19 05.48	
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.30.19 05.48	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH22A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-010	Date Collected:	08.26.19 13.13	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.7**	5.00	mg/kg	08.28.19 18.23		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.29.19 02.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	08.29.19 02.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<25.0	25.0	mg/kg	08.29.19 02.08	U	1
Total TPH	PHC635	<25.0	25.0	mg/kg	08.29.19 02.08	U	1
Total GRO-DRO	PHC628	<25.0	25.0	mg/kg	08.29.19 02.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	08.29.19 02.08	
o-Terphenyl	84-15-1	87	%	70-135	08.29.19 02.08	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH22A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-010	Date Collected:	08.26.19 13.13	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.30.19 06.08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.30.19 06.08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.30.19 06.08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.30.19 06.08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.30.19 06.08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.30.19 06.08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.30.19 06.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.30.19 06.08	
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.30.19 06.08	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH21**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-011	Date Collected:	08.27.19 10.09	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2650**	50.0	mg/kg	08.28.19 18.30		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.29.19 02.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	08.29.19 02.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<25.0	25.0	mg/kg	08.29.19 02.27	U	1
Total TPH	PHC635	<25.0	25.0	mg/kg	08.29.19 02.27	U	1
Total GRO-DRO	PHC628	<25.0	25.0	mg/kg	08.29.19 02.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	08.29.19 02.27	
o-Terphenyl	84-15-1	88	%	70-135	08.29.19 02.27	

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LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH21**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-011	Date Collected:	08.27.19 10.09	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.19 06.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.19 06.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.19 06.28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.30.19 06.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.19 06.28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.19 06.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.19 06.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.30.19 06.28	
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.30.19 06.28	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH23**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-012	Date Collected:	08.27.19 10.11	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3099983			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**820**	50.0	mg/kg	08.28.19 18.36		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.29.19 02.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	**519**	25.0	mg/kg	08.29.19 02.47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**145**	25.0	mg/kg	08.29.19 02.47		1
Total TPH	PHC635	**664**	25.0	mg/kg	08.29.19 02.47		1
Total GRO-DRO	PHC628	**519**	25.0	mg/kg	08.29.19 02.47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	08.29.19 02.47	
o-Terphenyl	84-15-1	87	%	70-135	08.29.19 02.47	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH23**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-012	Date Collected:	08.27.19 10.11	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.19 06.49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.19 06.49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.19 06.49	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.30.19 06.49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.19 06.49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.19 06.49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.19 06.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	08.30.19 06.49	
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.30.19 06.49	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH21A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-013	Date Collected:	08.27.19 10.13	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.29.19 09.15	Basis:	Wet Weight
Seq Number:	3100132			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3440**	49.8	mg/kg	08.29.19 11.14		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<25.0	25.0	mg/kg	08.29.19 03.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	08.29.19 03.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<25.0	25.0	mg/kg	08.29.19 03.07	U	1
Total TPH	PHC635	<25.0	25.0	mg/kg	08.29.19 03.07	U	1
Total GRO-DRO	PHC628	<25.0	25.0	mg/kg	08.29.19 03.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	08.29.19 03.07	
o-Terphenyl	84-15-1	85	%	70-135	08.29.19 03.07	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH21A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-013	Date Collected:	08.27.19 10.13	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.19 07.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.19 07.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.19 07.09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.30.19 07.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.19 07.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.19 07.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.19 07.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.30.19 07.09	
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.30.19 07.09	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH23A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-014	Date Collected:	08.27.19 10.19	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.29.19 09.15	Basis:	Wet Weight
Seq Number:	3100132			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1030**	50.0	mg/kg	08.29.19 11.19		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.19 15.00	Basis:	Wet Weight
Seq Number:	3100069			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<24.9	24.9	mg/kg	08.29.19 03.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	**430**	24.9	mg/kg	08.29.19 03.26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**122**	24.9	mg/kg	08.29.19 03.26		1
Total TPH	PHC635	**552**	24.9	mg/kg	08.29.19 03.26		1
Total GRO-DRO	PHC628	**430**	24.9	mg/kg	08.29.19 03.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	08.29.19 03.26	
o-Terphenyl	84-15-1	92	%	70-135	08.29.19 03.26	

Certificate of Analytical Results 635229

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**BH23A**	Matrix:	Soil	Date Received:	08.27.19 12.35
Lab Sample Id:	635229-014	Date Collected:	08.27.19 10.19	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.28.19 13.00	Basis:	Wet Weight
Seq Number:	3100229			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.30.19 07.29	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.30.19 07.29	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.30.19 07.29	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.30.19 07.29	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.30.19 07.29	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.30.19 07.29	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.30.19 07.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	08.30.19 07.29	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.30.19 07.29	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 635229

LT Environmental, Inc.

Remuda CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3099983 — Matrix: Solid — Date Prep: 08.28.19
MB Sample Id: 7685187-1-BLK — LCS Sample Id: 7685187-1-BKS — LCSD Sample Id: 7685187-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	242	97	242	97	90-110	0	20	mg/kg	08.28.19 15:29	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3100132 — Matrix: Solid — Date Prep: 08.29.19
MB Sample Id: 7685222-1-BLK — LCS Sample Id: 7685222-1-BKS — LCSD Sample Id: 7685222-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	258	103	256	102	90-110	1	20	mg/kg	08.29.19 10:44	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3099983 — Matrix: Soil — Date Prep: 08.28.19
Parent Sample Id: 635225-006 — MS Sample Id: 635225-006 S — MSD Sample Id: 635225-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	44.3	250	257	85	258	85	90-110	0	20	mg/kg	08.28.19 15:48	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3099983 — Matrix: Soil — Date Prep: 08.28.19
Parent Sample Id: 635229-005 — MS Sample Id: 635229-005 S — MSD Sample Id: 635229-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.1	249	226	85	226	85	90-110	0	20	mg/kg	08.28.19 17:20	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3100132 — Matrix: Soil — Date Prep: 08.29.19
Parent Sample Id: 635165-001 — MS Sample Id: 635165-001 S — MSD Sample Id: 635165-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.51	252	267	103	262	101	90-110	2	20	mg/kg	08.29.19 11:02	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 635229

LT Environmental, Inc.

Remuda CTB

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3100132 Matrix: Soil Date Prep: 08.29.19
Parent Sample Id: 635362-013 MS Sample Id: 635362-013 S MSD Sample Id: 635362-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.0	250	272	99	272	99	90-110	0	20	mg/kg	08.29.19 12:24	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3100069 Matrix: Solid Date Prep: 08.28.19
MB Sample Id: 7685195-1-BLK LCS Sample Id: 7685195-1-BKS LCSD Sample Id: 7685195-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	988	99	1010	101	70-135	2	20	mg/kg	08.28.19 21:53	
Diesel Range Organics (DRO)	<25.0	1000	916	92	935	94	70-135	2	20	mg/kg	08.28.19 21:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	85		116		120		70-135	%	08.28.19 21:53
o-Terphenyl	82		105		108		70-135	%	08.28.19 21:53

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3100069 Matrix: Soil Date Prep: 08.28.19
Parent Sample Id: 635229-001 MS Sample Id: 635229-001 S MSD Sample Id: 635229-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	966	97	981	98	70-135	2	20	mg/kg	08.28.19 22:51	
Diesel Range Organics (DRO)	<25.0	999	895	90	906	91	70-135	1	20	mg/kg	08.28.19 22:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		112		70-135	%	08.28.19 22:51
o-Terphenyl	93		95		70-135	%	08.28.19 22:51

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 635229

LT Environmental, Inc.

Remuda CTB

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3100229 Matrix: Solid Date Prep: 08.28.19

MB Sample Id: 7685216-1-BLK LCS Sample Id: 7685216-1-BKS LCSD Sample Id: 7685216-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0961	96	0.0955	96	70-130	1	35	mg/kg	08.29.19 22:09	
Toluene	<0.000456	0.100	0.0976	98	0.0969	97	70-130	1	35	mg/kg	08.29.19 22:09	
Ethylbenzene	<0.00200	0.100	0.107	107	0.106	106	70-130	1	35	mg/kg	08.29.19 22:09	
m,p-Xylenes	<0.00101	0.200	0.209	105	0.206	103	70-130	1	35	mg/kg	08.29.19 22:09	
o-Xylene	<0.000344	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	08.29.19 22:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		100		70-130	%	08.29.19 22:09
4-Bromofluorobenzene	104		114		117		70-130	%	08.29.19 22:09

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3100229 Matrix: Soil Date Prep: 08.28.19

Parent Sample Id: 635142-001 MS Sample Id: 635142-001 S MSD Sample Id: 635142-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0763	77	0.0771	78	70-130	1	35	mg/kg	08.29.19 22:49	
Toluene	<0.00199	0.0994	0.0690	69	0.0711	72	70-130	3	35	mg/kg	08.29.19 22:49	X
Ethylbenzene	<0.00199	0.0994	0.0713	72	0.0776	78	70-130	8	35	mg/kg	08.29.19 22:49	
m,p-Xylenes	<0.00101	0.199	0.130	65	0.145	73	70-130	11	35	mg/kg	08.29.19 22:49	X
o-Xylene	<0.000342	0.0994	0.0724	73	0.0814	82	70-130	12	35	mg/kg	08.29.19 22:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	08.29.19 22:49
4-Bromofluorobenzene	124		123		70-130	%	08.29.19 22:49

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 635229

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	wmather@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB	Turn Around	
Project Number:	12918152	Routine	☑
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	6.2	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SS01	s	8/26/2019	10:35	0.5	1	X	X	X
SS02	s	8/26/2019	10:35	0.5	1	X	X	X
SS03	s	8/26/2019	10:36	0.5	1	X	X	X
SS04	s	8/26/2019	10:37	0.5	1	X	X	X
SS06	s	8/26/2019	10:40	0.5	1	X	X	X
SS01a	s	8/26/2019	13:00	1	1	X	X	X
SS02a	s	8/26/2019	13:03	1	1	X	X	X
SS03a	s	8/26/2019	13:05	1	1	X	X	X
SS04a	s	8/26/2019	13:06	1	1	X	X	X
SS06a	s	8/26/2019	13:13	1	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Discrete

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 Tl 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 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
		8/26/19 12:35	2		
		8/27/19	4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/2/2025 10:49:05 AM
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Released to Imaging: 2/10/2026 2:25:28 PM

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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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 635229

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	wmather@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB	Turn Around	
Project Number:	12918152	Routine ☐	
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SS05	s	8/27/2019	10:09	0.5	1	X	X	X
SS07	s	8/28/2019	10:11	0.5	1	X	X	X
SS05a	s	8/29/2019	10:13	1	1	X	X	X
SS07a	s	~~8/30/2019~~ 8/27/19	10:19	1	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Discrete
Discrete
Discrete
Discrete

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 Tl 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 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			8/27/19 12:35	2			
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 10/22/2025 10:49:05 AM
Final 1.002
Page 42 of 46
Released to Imaging: 2/10/2026 2:25:28 PM

Inter-Office Shipment

IOS Number **46978**

Date/Time: 08/27/19 14:40
Created by: Elizabeth Mcclellan
Please send report to: Jessica Kramer

Lab# From: **Carlsbad**
Delivery Priority:
Address: 1089 N Canal Street

Lab# To: **Midland**
Air Bill No.: 776092467348
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
635229-001	S	SS01	08/26/19 10:35	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-001	S	SS01	08/26/19 10:35	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-001	S	SS01	08/26/19 10:35	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-002	S	SS02	08/26/19 10:35	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-002	S	SS02	08/26/19 10:35	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-002	S	SS02	08/26/19 10:35	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-003	S	SS03	08/26/19 10:36	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-003	S	SS03	08/26/19 10:36	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-003	S	SS03	08/26/19 10:36	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-004	S	SS04	08/26/19 10:37	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-004	S	SS04	08/26/19 10:37	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-004	S	SS04	08/26/19 10:37	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-005	S	SS06	08/26/19 10:40	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-005	S	SS06	08/26/19 10:40	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-005	S	SS06	08/26/19 10:40	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-006	S	SS01a	08/26/19 13:00	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-006	S	SS01a	08/26/19 13:00	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-006	S	SS01a	08/26/19 13:00	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-007	S	SS02a	08/26/19 13:03	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-007	S	SS02a	08/26/19 13:03	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-007	S	SS02a	08/26/19 13:03	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-008	S	SS03a	08/26/19 13:05	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-008	S	SS03a	08/26/19 13:05	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-008	S	SS03a	08/26/19 13:05	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-009	S	SS04a	08/26/19 13:06	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment

IOS Number **46978**

Date/Time: 08/27/19 14:40
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776092467348

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
635229-009	S	SS04a	08/26/19 13:06	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-009	S	SS04a	08/26/19 13:06	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-010	S	SS06a	08/26/19 13:13	SW8021B	BTEX by EPA 8021B	09/03/19	09/09/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-010	S	SS06a	08/26/19 13:13	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/09/19	JKR	GRO-DRO PHCC10C28 PI	
635229-010	S	SS06a	08/26/19 13:13	E300_CL	Chloride by EPA 300	09/03/19	02/22/20	JKR	CL	
635229-011	S	SS05	08/27/19 10:09	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/10/19	JKR	GRO-DRO PHCC10C28 PI	
635229-011	S	SS05	08/27/19 10:09	SW8021B	BTEX by EPA 8021B	09/03/19	09/10/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-011	S	SS05	08/27/19 10:09	E300_CL	Chloride by EPA 300	09/03/19	02/23/20	JKR	CL	
635229-012	S	SS07	08/27/19 10:11	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/10/19	JKR	GRO-DRO PHCC10C28 PI	
635229-012	S	SS07	08/27/19 10:11	SW8021B	BTEX by EPA 8021B	09/03/19	09/10/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-012	S	SS07	08/27/19 10:11	E300_CL	Chloride by EPA 300	09/03/19	02/23/20	JKR	CL	
635229-013	S	SS05a	08/27/19 10:13	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/10/19	JKR	GRO-DRO PHCC10C28 PI	
635229-013	S	SS05a	08/27/19 10:13	E300_CL	Chloride by EPA 300	09/03/19	02/23/20	JKR	CL	
635229-013	S	SS05a	08/27/19 10:13	SW8021B	BTEX by EPA 8021B	09/03/19	09/10/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-014	S	SS07a	08/27/19 10:19	SW8021B	BTEX by EPA 8021B	09/03/19	09/10/19	JKR	BR4FBZ BZ BZME EBZ X	
635229-014	S	SS07a	08/27/19 10:19	SW8015MOD_NM	TPH by SW8015 Mod	09/03/19	09/10/19	JKR	GRO-DRO PHCC10C28 PI	
635229-014	S	SS07a	08/27/19 10:19	E300_CL	Chloride by EPA 300	09/03/19	02/23/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 08/27/2019

Received By: Brianna Teel

Date Received: 08/28/2019 11:29

Cooler Temperature: 2.3

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 46978

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 08/27/2019 02:40 PM

Received By: Brianna Teel **Date Received:** 08/28/2019 11:29 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brianna Teel Date: 08/28/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08/27/2019 12:35:00 PM

Work Order #: 635229

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	6.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**No**	
#5 Custody Seals intact on sample bottles?	**No**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Subbed to Xenco Midland
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 08/27/2019

Checklist reviewed by: Jessica Kramer Date: 08/28/2019

Jessica Kramer

Analytical Report 638241

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda CTB

27-SEP-19

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-21), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 2/10/2026 2:25:28 PM

27-SEP-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **638241**
Remuda CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 638241. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 638241 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 638241

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS09	S	09-26-19 12:45	1 ft	638241-001
FS10	S	09-26-19 13:10	1.5 ft	638241-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda CTB

Project ID:
Work Order Number(s): *638241*

Report Date: *27-SEP-19*
Date Received: *09/26/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3102632 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 638241

LT Environmental, Inc., Arvada, CO

Project Name: Remuda CTB

Project Id:
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu Sep-26-19 03:25 pm
Report Date: 27-SEP-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	638241-001		638241-002					
	Field Id:	FS09		FS10					
	Depth:	1- ft		1.5- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Sep-26-19 12:45		Sep-26-19 13:10					
BTEX by EPA 8021B	***Extracted:***	Sep-26-19 16:09		Sep-26-19 16:09					
	Analyzed:	Sep-26-19 22:36		Sep-26-19 23:54					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00100	0.00100	<0.00100	0.00100				
Toluene		<0.00100	0.00100	<0.00100	0.00100				
Ethylbenzene		<0.00100	0.00100	<0.00100	0.00100				
m,p-Xylenes		<0.00200	0.00200	<0.00201	0.00201				
o-Xylene		<0.00100	0.00100	<0.00100	0.00100				
Total Xylenes		<0.00100	0.00100	<0.00100	0.00100				
Total BTEX		<0.00100	0.00100	<0.00100	0.00100				
Chloride by EPA 300	***Extracted:***	Sep-26-19 17:00		Sep-26-19 17:00					
	Analyzed:	Sep-26-19 20:29		Sep-26-19 20:35					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		887	101	2040 D	501				
TPH by SW8015 Mod	***Extracted:***	Sep-26-19 17:00		Sep-26-19 17:00					
	Analyzed:	Sep-27-19 02:08		Sep-27-19 02:28					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0				
Total GRO-DRO		<50.0	50.0	<50.0	50.0				
Total TPH		<50.0	50.0	<50.0	50.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 638241

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS09**	Matrix:	Soil	Date Received:	09.26.19 15.25
Lab Sample Id:	638241-001	Date Collected:	09.26.19 12.45	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.26.19 17.00	Basis:	Wet Weight
Seq Number:	3102664				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**887**	101	mg/kg	09.26.19 20.29		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.26.19 17.00	Basis:	Wet Weight
Seq Number:	3102656				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.27.19 02.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.27.19 02.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.27.19 02.08	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	09.27.19 02.08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.27.19 02.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	09.27.19 02.08	
o-Terphenyl	84-15-1	109	%	70-135	09.27.19 02.08	

Certificate of Analytical Results 638241

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS09**	Matrix:	Soil	Date Received:	09.26.19 15.25
Lab Sample Id:	638241-001	Date Collected:	09.26.19 12.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	DTH	Date Prep:	09.26.19 16.09	Basis:	Wet Weight
Seq Number:	3102632				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	09.26.19 22.36	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	09.26.19 22.36	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	09.26.19 22.36	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	09.26.19 22.36	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	09.26.19 22.36	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	09.26.19 22.36	U	1
Total BTEX		<0.00100	0.00100	mg/kg	09.26.19 22.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.26.19 22.36	
4-Bromofluorobenzene	460-00-4	97	%	70-130	09.26.19 22.36	

Certificate of Analytical Results 638241

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS10**	Matrix:	Soil	Date Received:	09.26.19 15.25
Lab Sample Id:	638241-002	Date Collected:	09.26.19 13.10	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.26.19 17.00	Basis:	Wet Weight
Seq Number:	3102664				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2040**	501	mg/kg	09.26.19 21.00	D	50

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.26.19 17.00	Basis:	Wet Weight
Seq Number:	3102656				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.27.19 02.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.27.19 02.28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.27.19 02.28	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	09.27.19 02.28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.27.19 02.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	09.27.19 02.28	
o-Terphenyl	84-15-1	106	%	70-135	09.27.19 02.28	

Certificate of Analytical Results 638241

LT Environmental, Inc., Arvada, CO

Remuda CTB

Sample Id:	**FS10**	Matrix:	Soil	Date Received:	09.26.19 15.25
Lab Sample Id:	638241-002	Date Collected:	09.26.19 13.10	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	DTH	Date Prep:	09.26.19 16.09	Basis:	Wet Weight
Seq Number:	3102632				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	09.26.19 23.54	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	09.26.19 23.54	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	09.26.19 23.54	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	09.26.19 23.54	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	09.26.19 23.54	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	09.26.19 23.54	U	1
Total BTEX		<0.00100	0.00100	mg/kg	09.26.19 23.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.26.19 23.54	
1,4-Difluorobenzene	540-36-3	111	%	70-130	09.26.19 23.54	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 638241

LT Environmental, Inc.

Remuda CTB

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3102664 Matrix: Soil Date Prep: 09.26.19
Parent Sample Id: 638155-026 MS Sample Id: 638155-026 S MSD Sample Id: 638155-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8230	19800	31400	117	31300	116	90-110	0	20	mg/kg	09.26.19 20:04	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3102656 Matrix: Solid Date Prep: 09.26.19
MB Sample Id: 7687016-1-BLK LCS Sample Id: 7687016-1-BKS LCSD Sample Id: 7687016-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1170	117	70-135	6	35	mg/kg	09.26.19 23:25	
Diesel Range Organics (DRO)	<50.0	1000	1280	128	1340	134	70-135	5	35	mg/kg	09.26.19 23:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		119		130		70-135	%	09.26.19 23:25
o-Terphenyl	100		113		119		70-135	%	09.26.19 23:25

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3102656 Matrix: Soil Date Prep: 09.26.19
Parent Sample Id: 638155-003 MS Sample Id: 638155-003 S MSD Sample Id: 638155-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1110	111	1220	122	70-135	9	35	mg/kg	09.27.19 00:26	
Diesel Range Organics (DRO)	<50.2	1000	1270	127	1300	130	70-135	2	35	mg/kg	09.27.19 00:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		126		70-135	%	09.27.19 00:26
o-Terphenyl	114		121		70-135	%	09.27.19 00:26

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 638241

LT Environmental, Inc.

Remuda CTB

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3102632 Matrix: Solid Date Prep: 09.26.19

MB Sample Id: 7687011-1-BLK LCS Sample Id: 7687011-1-BKS LCSD Sample Id: 7687011-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0853	85	0.0890	89	70-130	4	35	mg/kg	09.26.19 21:37	
Toluene	<0.00100	0.100	0.0942	94	0.0962	96	70-130	2	35	mg/kg	09.26.19 21:37	
Ethylbenzene	<0.00100	0.100	0.106	106	0.113	113	71-129	6	35	mg/kg	09.26.19 21:37	
m,p-Xylenes	<0.00200	0.200	0.216	108	0.229	115	70-135	6	35	mg/kg	09.26.19 21:37	
o-Xylene	<0.00100	0.100	0.106	106	0.113	113	71-133	6	35	mg/kg	09.26.19 21:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		95		70-130	%	09.26.19 21:37
4-Bromofluorobenzene	90		107		106		70-130	%	09.26.19 21:37

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3102632 Matrix: Soil Date Prep: 09.26.19

Parent Sample Id: 638241-001 MS Sample Id: 638241-001 S MSD Sample Id: 638241-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0958	96	0.0881	87	70-130	8	35	mg/kg	09.26.19 22:55	
Toluene	<0.00100	0.100	0.105	105	0.0968	96	70-130	8	35	mg/kg	09.26.19 22:55	
Ethylbenzene	<0.00100	0.100	0.112	112	0.101	100	71-129	10	35	mg/kg	09.26.19 22:55	
m,p-Xylenes	<0.00200	0.200	0.227	114	0.207	102	70-135	9	35	mg/kg	09.26.19 22:55	
o-Xylene	<0.00100	0.100	0.110	110	0.100	99	71-133	10	35	mg/kg	09.26.19 22:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		97		70-130	%	09.26.19 22:55
4-Bromofluorobenzene	110		106		70-130	%	09.26.19 22:55

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 638241

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda CTB	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: 24hr	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	4.4 / 2.8	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
FS09	S	09/26/19	1245	1	1	X	X	X	Composite
FS10	S	09/26/19	1310	1.5	1	X	X	X	Composite

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl 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 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
Robert McAfee	Corbin J	9/26/19 15:25	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 10/2/2019 10:49:05 AM
Final 1.000
Page 13 of 14
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 09/26/2019 03:25:00 PM

Work Order #: 638241

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.4
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 09/26/2019

Checklist reviewed by: Jessica Kramer Date: 09/27/2019

Jessica Kramer

Analytical Report 653844

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

012918152

27-FEB-20

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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27-FEB-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **653844**
Remuda Basin CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 653844. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 653844 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

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Sample Cross Reference 653844

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS08A	S	02-26-20 12:35	0.75 ft	653844-001

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *653844*

Report Date: *27-FEB-20*
Date Received: *02/26/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3117847 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 653844

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed Feb-26-20 04:52 pm
Report Date: 27-FEB-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	653844-001					
	Field Id:	FS08A					
	Depth:	0.75- ft					
	Matrix:	SOIL					
	Sampled:	Feb-26-20 12:35					
BTEX by EPA 8021B	***Extracted:***	Feb-26-20 17:00					
	Analyzed:	Feb-26-20 21:30					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00400	0.00400				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Feb-27-20 07:22					
	Analyzed:	Feb-27-20 09:38					
	Units/RL:	mg/kg	RL				
Chloride		327	20.1				
TPH by SW8015 Mod	***Extracted:***	Feb-26-20 21:29					
	Analyzed:	Feb-27-20 06:42					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1				
Diesel Range Organics (DRO)		<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1				
Total GRO-DRO		<50.1	50.1				
Total TPH		<50.1	50.1				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 653844

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS08A**	Matrix:	Soil	Date Received:	02.26.20 16.52
Lab Sample Id:	653844-001	Date Collected:	02.26.20 12.35	Sample Depth:	0.75 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.27.20 07.22	Basis:	Wet Weight
Seq Number:	3117872				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**327**	20.1	mg/kg	02.27.20 09.38		2

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.26.20 21.29	Basis:	Wet Weight
Seq Number:	3117842				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.27.20 06.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.27.20 06.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.27.20 06.42	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.27.20 06.42	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.27.20 06.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.27.20 06.42	
o-Terphenyl	84-15-1	118	%	70-135	02.27.20 06.42	

Certificate of Analytical Results 653844

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS08A**	Matrix:	Soil	Date Received:	02.26.20 16.52
Lab Sample Id:	653844-001	Date Collected:	02.26.20 12.35	Sample Depth:	0.75 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.26.20 17.00	Basis:	Wet Weight
Seq Number:	3117847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.26.20 21.30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.26.20 21.30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.26.20 21.30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.26.20 21.30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.26.20 21.30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.26.20 21.30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.26.20 21.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.26.20 21.30	
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.26.20 21.30	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 653844

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117872 — Matrix: Solid — Date Prep: 02.27.20
MB Sample Id: 7697574-1-BLK — LCS Sample Id: 7697574-1-BKS — LCSD Sample Id: 7697574-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.56	250	259	104	261	104	90-110	1	20	mg/kg	02.27.20 08:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117872 — Matrix: Soil — Date Prep: 02.27.20
Parent Sample Id: 653845-008 — MS Sample Id: 653845-008 S — MSD Sample Id: 653845-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	316	200	525	105	524	104	90-110	0	20	mg/kg	02.27.20 08:42	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117872 — Matrix: Soil — Date Prep: 02.27.20
Parent Sample Id: 653863-001 — MS Sample Id: 653863-001 S — MSD Sample Id: 653863-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.5	200	244	108	245	108	90-110	0	20	mg/kg	02.27.20 10:21	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117842 — Matrix: Solid — Date Prep: 02.26.20
MB Sample Id: 7697576-1-BLK — LCS Sample Id: 7697576-1-BKS — LCSD Sample Id: 7697576-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1050	105	70-135	5	35	mg/kg	02.27.20 05:25	
Diesel Range Organics (DRO)	<50.0	1000	1310	131	1230	123	70-135	6	35	mg/kg	02.27.20 05:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		113		117		70-135	%	02.27.20 05:25
o-Terphenyl	119		116		108		70-135	%	02.27.20 05:25

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117842 — Matrix: Solid — Date Prep: 02.26.20
MB Sample Id: 7697576-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.27.20 05:05	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 653844

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117842 | Matrix: Soil | Date Prep: 02.26.20
Parent Sample Id: 653827-028 | MS Sample Id: 653827-028 S | MSD Sample Id: 653827-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.6	992	801	81	887	89	70-135	10	35	mg/kg	02.27.20 06:03	
Diesel Range Organics (DRO)	<49.6	992	923	93	1010	101	70-135	9	35	mg/kg	02.27.20 06:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		121		70-135	%	02.27.20 06:03
o-Terphenyl	117		131		70-135	%	02.27.20 06:03

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3117847 | Matrix: Solid | Date Prep: 02.26.20
MB Sample Id: 7697498-1-BLK | LCS Sample Id: 7697498-1-BKS | LCSD Sample Id: 7697498-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.108	108	70-130	2	35	mg/kg	02.26.20 13:21	
Toluene	<0.00200	0.100	0.102	102	0.103	103	70-130	1	35	mg/kg	02.26.20 13:21	
Ethylbenzene	<0.00200	0.100	0.0973	97	0.0989	99	71-129	2	35	mg/kg	02.26.20 13:21	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.204	102	70-135	1	35	mg/kg	02.26.20 13:21	
o-Xylene	<0.00200	0.100	0.100	100	0.102	102	71-133	2	35	mg/kg	02.26.20 13:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		105		70-130	%	02.26.20 13:21
4-Bromofluorobenzene	94		94		94		70-130	%	02.26.20 13:21

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3117847 | Matrix: Soil | Date Prep: 02.26.20
Parent Sample Id: 653719-001 | MS Sample Id: 653719-001 S | MSD Sample Id: 653719-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.114	115	0.0885	89	70-130	25	35	mg/kg	02.26.20 14:02	
Toluene	<0.00198	0.0992	0.107	108	0.0822	82	70-130	26	35	mg/kg	02.26.20 14:02	
Ethylbenzene	<0.00198	0.0992	0.0984	99	0.0752	75	71-129	27	35	mg/kg	02.26.20 14:02	
m,p-Xylenes	<0.00397	0.198	0.200	101	0.154	77	70-135	26	35	mg/kg	02.26.20 14:02	
o-Xylene	<0.00198	0.0992	0.0978	99	0.0770	77	71-133	24	35	mg/kg	02.26.20 14:02	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		70-130	%	02.26.20 14:02
4-Bromofluorobenzene	92		100		70-130	%	02.26.20 14:02

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

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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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Work Order No: 653844

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com mcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Bash CTB
Project Number:	012918152
P.O. Number:	Ø
Sampler's Name:	Robert McAfee

Turn Around
Routine ☐
Rush: 24hr
Due Date:

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.2	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS08A	S	02/26/20	1235	0.75'	1	x	x	x

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

composite

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 Tl 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 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	Robert McAfee		2/26/20 16:52	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018 1

Received by OCD: 12/22/2025 10:49:05 AM
Final 1.000
Page 11 of 12
Released to Imaging: 2/10/2026 2:25:28 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02.26.2020 04.52.00 PM

Work Order #: 653844

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02.26.2020

Checklist reviewed by: Jessica Kramer Date: 02.27.2020

Jessica Kramer

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Certificate of Analysis Summary 653844

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed 02.26.2020 16:52
Report Date: 11.19.2020 16:05
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	653844-001					
	Field Id:	FS08A					
	Depth:	1.0- ft					
	Matrix:	SOIL					
	Sampled:	02.26.2020 12:35					
BTEX by EPA 8021B	***Extracted:***	02.26.2020 17:00					
	Analyzed:	02.26.2020 21:30					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00400	0.00400				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	02.27.2020 07:22					
	Analyzed:	02.27.2020 09:38					
	Units/RL:	mg/kg	RL				
Chloride		327	20.1				
TPH by SW8015 Mod	***Extracted:***	02.26.2020 21:29					
	Analyzed:	02.27.2020 06:42					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1				
Diesel Range Organics (DRO)		<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1				
Total GRO-DRO		<50.1	50.1				
Total TPH		<50.1	50.1				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 653844

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

012918152

11.19.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.19.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **653844**
Remuda Basin CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 653844. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 653844 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 653844

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS08A	S	02.26.2020 12:35	1.0 ft	653844-001

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *653844*

Report Date: *11.19.2020*
Date Received: *02.26.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3117847 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

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Certificate of Analytical Results 653844

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS08A**	Matrix:	Soil	Date Received:	02.26.2020 16:52
Lab Sample Id:	653844-001	Date Collected:	02.26.2020 12:35	Sample Depth:	1.0 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.27.2020 07:22	% Moisture:	
Seq Number:	3117872			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**327**	20.1	mg/kg	02.27.2020 09:38		2

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	02.26.2020 21:29	% Moisture:	
Seq Number:	3117842			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.27.2020 06:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.27.2020 06:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.27.2020 06:42	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.27.2020 06:42	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.27.2020 06:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.27.2020 06:42	
o-Terphenyl	84-15-1	118	%	70-135	02.27.2020 06:42	

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Certificate of Analytical Results 653844

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS08A**	Matrix:	Soil	Date Received:	02.26.2020 16:52
Lab Sample Id:	653844-001	Date Collected:	02.26.2020 12:35	Sample Depth:	1.0 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB				
Analyst:	MAB	Date Prep:	02.26.2020 17:00	% Moisture:	
Seq Number:	3117847			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.26.2020 21:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.26.2020 21:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.26.2020 21:30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.26.2020 21:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.26.2020 21:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.26.2020 21:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.26.2020 21:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.26.2020 21:30	
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.26.2020 21:30	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 653844

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117872 — Matrix: Solid — Date Prep: 02.27.2020
MB Sample Id: 7697574-1-BLK — LCS Sample Id: 7697574-1-BKS — LCSD Sample Id: 7697574-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2.56	250	259	104	261	104	90-110	1	20	mg/kg	02.27.2020 08:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117872 — Matrix: Soil — Date Prep: 02.27.2020
Parent Sample Id: 653845-008 — MS Sample Id: 653845-008 S — MSD Sample Id: 653845-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	316	200	525	105	524	104	90-110	0	20	mg/kg	02.27.2020 08:42	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117872 — Matrix: Soil — Date Prep: 02.27.2020
Parent Sample Id: 653863-001 — MS Sample Id: 653863-001 S — MSD Sample Id: 653863-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.5	200	244	108	245	108	90-110	0	20	mg/kg	02.27.2020 10:21	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117842 — Matrix: Solid — Date Prep: 02.26.2020
MB Sample Id: 7697576-1-BLK — LCS Sample Id: 7697576-1-BKS — LCSD Sample Id: 7697576-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1050	105	70-135	5	35	mg/kg	02.27.2020 05:25	
Diesel Range Organics (DRO)	<50.0	1000	1310	131	1230	123	70-135	6	35	mg/kg	02.27.2020 05:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		113		117		70-135	%	02.27.2020 05:25
o-Terphenyl	119		116		108		70-135	%	02.27.2020 05:25

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117842 — Matrix: Solid — Date Prep: 02.26.2020
MB Sample Id: 7697576-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.27.2020 05:05	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 653844

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3117842 Matrix: Soil Date Prep: 02.26.2020
Parent Sample Id: 653827-028 MS Sample Id: 653827-028 S MSD Sample Id: 653827-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.6	992	801	81	887	89	70-135	10	35	mg/kg	02.27.2020 06:03	
Diesel Range Organics (DRO)	<49.6	992	923	93	1010	101	70-135	9	35	mg/kg	02.27.2020 06:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		121		70-135	%	02.27.2020 06:03
o-Terphenyl	117		131		70-135	%	02.27.2020 06:03

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3117847 Matrix: Solid Date Prep: 02.26.2020
MB Sample Id: 7697498-1-BLK LCS Sample Id: 7697498-1-BKS LCSD Sample Id: 7697498-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.108	108	70-130	2	35	mg/kg	02.26.2020 13:21	
Toluene	<0.00200	0.100	0.102	102	0.103	103	70-130	1	35	mg/kg	02.26.2020 13:21	
Ethylbenzene	<0.00200	0.100	0.0973	97	0.0989	99	71-129	2	35	mg/kg	02.26.2020 13:21	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.204	102	70-135	1	35	mg/kg	02.26.2020 13:21	
o-Xylene	<0.00200	0.100	0.100	100	0.102	102	71-133	2	35	mg/kg	02.26.2020 13:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		105		70-130	%	02.26.2020 13:21
4-Bromofluorobenzene	94		94		94		70-130	%	02.26.2020 13:21

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3117847 Matrix: Soil Date Prep: 02.26.2020
Parent Sample Id: 653719-001 MS Sample Id: 653719-001 S MSD Sample Id: 653719-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.114	115	0.0885	89	70-130	25	35	mg/kg	02.26.2020 14:02	
Toluene	<0.00198	0.0992	0.107	108	0.0822	82	70-130	26	35	mg/kg	02.26.2020 14:02	
Ethylbenzene	<0.00198	0.0992	0.0984	99	0.0752	75	71-129	27	35	mg/kg	02.26.2020 14:02	
m,p-Xylenes	<0.00397	0.198	0.200	101	0.154	77	70-135	26	35	mg/kg	02.26.2020 14:02	
o-Xylene	<0.00198	0.0992	0.0978	99	0.0770	77	71-133	24	35	mg/kg	02.26.2020 14:02	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		70-130	%	02.26.2020 14:02
4-Bromofluorobenzene	92		100		70-130	%	02.26.2020 14:02

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Page 598 of 758

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Work Order No: 653844

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com mcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Bash CTB
Project Number:	012918152
P.O. Number:	Ø
Sampler's Name:	Robert McAfee

Turn Around
Routine ☐
Rush: 24hr
Due Date:

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.2	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS08A	S	02/26/20	1235	0.75'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

composite

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 Tl 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 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	Robert McAfee		2/26/20 16:52	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018 1

Received by OCD: 12/22/2025 10:49:05 AM
Final 1.001
Page 11 of 12
Released to Imaging: 2/10/2026 2:25:28 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02.26.2020 04.52.00 PM

Work Order #: 653844

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02.26.2020

Checklist reviewed by: Jessica Kramer Date: 02.27.2020

Jessica Kramer

Analytical Report 654568

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

012918152

05-MAR-20

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 2/10/2026 2:25:28 PM

05-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **654568**
Remuda Basin CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 654568. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 654568 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 654568

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS11	S	03-03-20 15:10	1 ft	654568-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *654568*

Report Date: *05-MAR-20*
Date Received: *03/04/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3118585 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 654568

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed Mar-04-20 12:40 pm
Report Date: 05-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	654568-001					
	Field Id:	FS11					
	Depth:	1- ft					
	Matrix:	SOIL					
	Sampled:	Mar-03-20 15:10					
BTEX by EPA 8021B	***Extracted:***	Mar-04-20 15:00					
	Analyzed:	Mar-04-20 18:25					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00400	0.00400				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Mar-04-20 15:00					
	Analyzed:	Mar-04-20 19:04					
	Units/RL:	mg/kg	RL				
Chloride		260	99.6				
TPH by SW8015 Mod	***Extracted:***	Mar-04-20 16:00					
	Analyzed:	Mar-04-20 16:21					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2				
Diesel Range Organics (DRO)		<50.2	50.2				
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2				
Total GRO-DRO		<50.2	50.2				
Total TPH		<50.2	50.2				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 654568

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS11**	Matrix:	Soil	Date Received:	03.04.20 12.40
Lab Sample Id:	654568-001	Date Collected:	03.03.20 15.10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.04.20 15.00	Basis:	Wet Weight
Seq Number:	3118583				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**260**	99.6	mg/kg	03.04.20 19.04		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.04.20 16.00	Basis:	Wet Weight
Seq Number:	3118601				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.04.20 16.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.04.20 16.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.04.20 16.21	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.04.20 16.21	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.04.20 16.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.04.20 16.21	
o-Terphenyl	84-15-1	107	%	70-135	03.04.20 16.21	

Certificate of Analytical Results 654568

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS11**	Matrix:	Soil	Date Received:	03.04.20 12.40
Lab Sample Id:	654568-001	Date Collected:	03.03.20 15.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.04.20 15.00	Basis:	Wet Weight
Seq Number:	3118585				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.04.20 18.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.04.20 18.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.04.20 18.25	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.04.20 18.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.04.20 18.25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.04.20 18.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.04.20 18.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.04.20 18.25	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.04.20 18.25	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 654568

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118583 — Matrix: Solid — Date Prep: 03.04.20
MB Sample Id: 7698069-1-BLK — LCS Sample Id: 7698069-1-BKS — LCSD Sample Id: 7698069-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	245	98	260	104	90-110	6	20	mg/kg	03.04.20 17:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118583 — Matrix: Soil — Date Prep: 03.04.20
Parent Sample Id: 654483-007 — MS Sample Id: 654483-007 S — MSD Sample Id: 654483-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	854	200	1060	103	1060	103	90-110	0	20	mg/kg	03.04.20 17:50	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118583 — Matrix: Soil — Date Prep: 03.04.20
Parent Sample Id: 654571-001 — MS Sample Id: 654571-001 S — MSD Sample Id: 654571-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	926	200	1130	102	1130	102	90-110	0	20	mg/kg	03.04.20 19:16	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118601 — Matrix: Solid — Date Prep: 03.04.20
MB Sample Id: 7698123-1-BLK — LCS Sample Id: 7698123-1-BKS — LCSD Sample Id: 7698123-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	872	87	839	84	70-135	4	35	mg/kg	03.04.20 13:20	
Diesel Range Organics (DRO)	<50.0	1000	852	85	814	81	70-135	5	35	mg/kg	03.04.20 13:20	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		99		95		70-135	%	03.04.20 13:20
o-Terphenyl	112		107		102		70-135	%	03.04.20 13:20

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118601 — Matrix: Solid — Date Prep: 03.04.20
MB Sample Id: 7698123-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.04.20 13:00	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Final 1.000

QC Summary 654568

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3118601 | Matrix: Soil | Date Prep: 03.04.20
Parent Sample Id: 654483-002 | MS Sample Id: 654483-002 S | MSD Sample Id: 654483-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	990	99	987	98	70-135	0	35	mg/kg	03.04.20 14:20	
Diesel Range Organics (DRO)	<49.9	998	965	97	974	96	70-135	1	35	mg/kg	03.04.20 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		109		70-135	%	03.04.20 14:20
o-Terphenyl	121		118		70-135	%	03.04.20 14:20

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3118585 | Matrix: Solid | Date Prep: 03.04.20
MB Sample Id: 7698065-1-BLK | LCS Sample Id: 7698065-1-BKS | LCSD Sample Id: 7698065-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.127	127	0.126	126	70-130	1	35	mg/kg	03.04.20 13:39	
Toluene	<0.00200	0.100	0.117	117	0.116	116	70-130	1	35	mg/kg	03.04.20 13:39	
Ethylbenzene	<0.00200	0.100	0.111	111	0.110	110	71-129	1	35	mg/kg	03.04.20 13:39	
m,p-Xylenes	<0.00400	0.200	0.218	109	0.215	108	70-135	1	35	mg/kg	03.04.20 13:39	
o-Xylene	<0.00200	0.100	0.110	110	0.109	109	71-133	1	35	mg/kg	03.04.20 13:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		112		111		70-130	%	03.04.20 13:39
4-Bromofluorobenzene	93		90		89		70-130	%	03.04.20 13:39

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3118585 | Matrix: Soil | Date Prep: 03.04.20
Parent Sample Id: 654483-002 | MS Sample Id: 654483-002 S | MSD Sample Id: 654483-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.126	127	0.124	123	70-130	2	35	mg/kg	03.04.20 14:20	
Toluene	<0.00199	0.0994	0.125	126	0.121	120	70-130	3	35	mg/kg	03.04.20 14:20	
Ethylbenzene	<0.00199	0.0994	0.118	119	0.123	122	71-129	4	35	mg/kg	03.04.20 14:20	
m,p-Xylenes	<0.00398	0.199	0.229	115	0.258	128	70-135	12	35	mg/kg	03.04.20 14:20	
o-Xylene	<0.00199	0.0994	0.114	115	0.129	128	71-133	12	35	mg/kg	03.04.20 14:20	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	03.04.20 14:20
4-Bromofluorobenzene	88		89		70-130	%	03.04.20 14:20

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

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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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: ~~654650~~ 654528 (3/4/12)

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	012918152	Routine	☐
P.O. Number:	2RP-4958	Rush:	24hr
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0	Thermometer ID		
Received Intact:	(Yes) No		TNM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Work Order Notes
FS11	S	03/03/20	1510	1'	1	X	X	X	Composite

ANALYSIS REQUEST

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Note: 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	Robert McAfee		3/4/20 12:40	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/22/2025 10:49:05 AM
Final 1.000
Page 11 of 12
Released to Imaging: 2/10/2026 2:25:28 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.04.2020 12.40.00 PM

Work Order #: 654568

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.04.2020

Checklist reviewed by: Jessica Kramer Date: 03.05.2020

Jessica Kramer

Analytical Report 655230

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

11-MAR-20

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

11-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **655230**
Remuda Basin CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 655230. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 655230 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Released to Imaging: 2/10/2026 2:25:28 PM

Sample Cross Reference 655230

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS12	S	03-10-20 10:15	1.5 ft	655230-001

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID:
Work Order Number(s): *655230*

Report Date: *11-MAR-20*
Date Received: *03/10/2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3119169 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 655230

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Mar-10-20 03:45 pm
Report Date: 11-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	655230-001					
	Field Id:	FS12					
	Depth:	1.5- ft					
	Matrix:	SOIL					
	Sampled:	Mar-10-20 10:15					
BTEX by EPA 8021B	***Extracted:***	Mar-10-20 16:00					
	Analyzed:	Mar-11-20 03:56					
	Units/RL:	mg/kg	RL				
Benzene		<0.00198	0.00198				
Toluene		<0.00198	0.00198				
Ethylbenzene		<0.00198	0.00198				
m,p-Xylenes		<0.00396	0.00396				
o-Xylene		0.0129	0.00198				
Total Xylenes		0.0129	0.00198				
Total BTEX		0.0129	0.00198				
Chloride by EPA 300	***Extracted:***	Mar-10-20 16:00					
	Analyzed:	Mar-10-20 20:35					
	Units/RL:	mg/kg	RL				
Chloride		113	50.0				
TPH by SW8015 Mod	***Extracted:***	Mar-10-20 17:10					
	Analyzed:	Mar-11-20 01:50					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1				
Diesel Range Organics (DRO)		<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1				
Total GRO-DRO		<50.1	50.1				
Total TPH		<50.1	50.1				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer
Project Manager

Final 1.000

Certificate of Analytical Results 655230

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	03.10.20 15.45
Lab Sample Id:	655230-001	Date Collected:	03.10.20 10.15	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 16.00	Basis:	Wet Weight
Seq Number:	3119172				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**113**	50.0	mg/kg	03.10.20 20.35		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 17.10	Basis:	Wet Weight
Seq Number:	3119195				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.11.20 01.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.11.20 01.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.11.20 01.50	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.11.20 01.50	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.11.20 01.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	03.11.20 01.50	
o-Terphenyl	84-15-1	121	%	70-135	03.11.20 01.50	

Certificate of Analytical Results 655230

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	03.10.20 15.45
Lab Sample Id:	655230-001	Date Collected:	03.10.20 10.15	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 16.00	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.11.20 03.56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.11.20 03.56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.11.20 03.56	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.11.20 03.56	U	1
o-Xylene	95-47-6	**0.0129**	0.00198	mg/kg	03.11.20 03.56		1
Total Xylenes	1330-20-7	**0.0129**	0.00198	mg/kg	03.11.20 03.56		1
Total BTEX		**0.0129**	0.00198	mg/kg	03.11.20 03.56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 03.56	
4-Bromofluorobenzene	460-00-4	100	%	70-130	03.11.20 03.56	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Released to Imaging: 2/10/2026 2:25:28 PM

QC Summary 655230

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3119172 Matrix: Solid Date Prep: 03.10.20
MB Sample Id: 7698498-1-BLK LCS Sample Id: 7698498-1-BKS LCSD Sample Id: 7698498-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	258	103	258	103	90-110	0	20	mg/kg	03.10.20 17:52	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3119172 Matrix: Soil Date Prep: 03.10.20
Parent Sample Id: 655117-005 MS Sample Id: 655117-005 S MSD Sample Id: 655117-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.96	199	213	107	214	108	90-110	0	20	mg/kg	03.10.20 18:10	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3119172 Matrix: Soil Date Prep: 03.10.20
Parent Sample Id: 655117-015 MS Sample Id: 655117-015 S MSD Sample Id: 655117-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	206	103	206	102	90-110	0	20	mg/kg	03.10.20 19:35	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3119195 Matrix: Solid Date Prep: 03.10.20
MB Sample Id: 7698558-1-BLK LCS Sample Id: 7698558-1-BKS LCSD Sample Id: 7698558-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	913	91	859	86	70-135	6	35	mg/kg	03.11.20 01:10	
Diesel Range Organics (DRO)	<50.0	1000	903	90	854	85	70-135	6	35	mg/kg	03.11.20 01:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		120		95		70-135	%	03.11.20 01:10
o-Terphenyl	105		113		99		70-135	%	03.11.20 01:10

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3119195 Matrix: Solid Date Prep: 03.10.20
MB Sample Id: 7698558-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.11.20 00:49	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 655230

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3119195 | Matrix: Soil | Date Prep: 03.10.20
Parent Sample Id: 655230-001 | MS Sample Id: 655230-001 S | MSD Sample Id: 655230-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1070	107	1040	104	70-135	3	35	mg/kg	03.11.20 02:11	
Diesel Range Organics (DRO)	<50.2	1000	1040	104	981	98	70-135	6	35	mg/kg	03.11.20 02:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		121		70-135	%	03.11.20 02:11
o-Terphenyl	125		119		70-135	%	03.11.20 02:11

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3119169 | Matrix: Solid | Date Prep: 03.10.20
MB Sample Id: 7698477-1-BLK | LCS Sample Id: 7698477-1-BKS | LCSD Sample Id: 7698477-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.110	110	70-130	1	35	mg/kg	03.10.20 22:09	
Toluene	<0.00200	0.100	0.103	103	0.105	105	70-130	2	35	mg/kg	03.10.20 22:09	
Ethylbenzene	<0.00200	0.100	0.0973	97	0.0988	99	71-129	2	35	mg/kg	03.10.20 22:09	
m,p-Xylenes	<0.00400	0.200	0.200	100	0.203	102	70-135	1	35	mg/kg	03.10.20 22:09	
o-Xylene	<0.00200	0.100	0.101	101	0.103	103	71-133	2	35	mg/kg	03.10.20 22:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		108		108		70-130	%	03.10.20 22:09
4-Bromofluorobenzene	97		94		92		70-130	%	03.10.20 22:09

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3119169 | Matrix: Soil | Date Prep: 03.10.20
Parent Sample Id: 655094-006 | MS Sample Id: 655094-006 S | MSD Sample Id: 655094-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0983	99	0.108	109	70-130	9	35	mg/kg	03.10.20 22:50	
Toluene	<0.00199	0.0994	0.0947	95	0.102	103	70-130	7	35	mg/kg	03.10.20 22:50	
Ethylbenzene	<0.00199	0.0994	0.0887	89	0.0952	96	71-129	7	35	mg/kg	03.10.20 22:50	
m,p-Xylenes	<0.00398	0.199	0.181	91	0.194	98	70-135	7	35	mg/kg	03.10.20 22:50	
o-Xylene	<0.00199	0.0994	0.0911	92	0.0978	99	71-133	7	35	mg/kg	03.10.20 22:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		108		70-130	%	03.10.20 22:50
4-Bromofluorobenzene	96		96		70-130	%	03.10.20 22:50

MS/MSD Percent Recovery | [D] = 100*(C-A) / B | LCS = Laboratory Control Sample | MS = Matrix Spike
Relative Percent Difference | RPD = 200* | (C-E) / (C+E) | | A = Parent Result | B = Spike Added
LCS/LCSD Recovery | [D] = 100 * (C) / [B] | C = MS/LCS Result | D = MSD/LCSD % Rec
Log Difference | Log Diff. = Log(Sample Duplicate) - Log(Original Sample) | E = MSD/LCSD Result

Page 622 of 758

Chain of Custody

XENCO LABORATORIES
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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 655230

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO-Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	432.704.5178 Email:		dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:		Routine ☐	
P.O. Number:	2RP - 4958	Rush: 24 hr	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):	2-0	Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:	1	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS12	S	03/10/20	1015	1.5'	1	X	X	X

Work Order Notes

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

composite

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 Tl 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 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	Robert McAfee		3/10/20 15:45	2			
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/22/2025 10:49:05 AM
Final 1.000
Page 11 of 11
Released to Imaging: 2/10/2026 2:25:28 PM

Analytical Report 659288

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

012918152

04.21.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.21.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659288**
Remuda Basin CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659288. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659288 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 659288

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS13	S	04.15.2020 11:10	0.5 ft	659288-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *659288*

Report Date: *04.21.2020*
Date Received: *04.20.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123538 BTEX by EPA 8021B

Soil samples received in bulk containers..

Certificate of Analysis Summary 659288

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 04.20.2020 14:35
Report Date: 04.21.2020 13:31
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	659288-001					
	Field Id:	FS13					
	Depth:	0.5- ft					
	Matrix:	SOIL					
	Sampled:	04.15.2020 11:10					
BTEX by EPA 8021B	***Extracted:***	04.20.2020 16:00					
	Analyzed:	04.20.2020 20:19					
	Units/RL:	mg/kg	RL				
Benzene		<0.00201	0.00201				
Toluene		<0.00201	0.00201				
Ethylbenzene		<0.00201	0.00201				
m,p-Xylenes		<0.00402	0.00402				
o-Xylene		<0.00201	0.00201				
Total Xylenes		<0.00201	0.00201				
Total BTEX		<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	** ** ** **					
	Analyzed:	04.20.2020 21:47					
	Units/RL:	mg/kg	RL				
Chloride		502	99.8				
TPH by SW8015 Mod	***Extracted:***	04.20.2020 16:00					
	Analyzed:	04.20.2020 17:35					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0				
Total GRO-DRO		<50.0	50.0				
Total TPH		<50.0	50.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Manager

Certificate of Analytical Results 659288

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	04.20.2020 14:35
Lab Sample Id:	659288-001	Date Collected:	04.15.2020 11:10	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 14:24	Basis:	Wet Weight
Seq Number:	3123547				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**502**	99.8	mg/kg	04.20.2020 21:47		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	04.20.2020 16:00	Basis:	Wet Weight
Seq Number:	3123594				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.20.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.20.2020 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.20.2020 17:35	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.20.2020 17:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.20.2020 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	04.20.2020 17:35	
o-Terphenyl	84-15-1	108	%	70-135	04.20.2020 17:35	

Certificate of Analytical Results 659288

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	04.20.2020 14:35
Lab Sample Id:	659288-001	Date Collected:	04.15.2020 11:10	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 16:00	Basis:	Wet Weight
Seq Number:	3123538				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.20.2020 20:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.20.2020 20:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.20.2020 20:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.20.2020 20:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.20.2020 20:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.20.2020 20:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.20.2020 20:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.20.2020 20:19	
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.20.2020 20:19	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 659288

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3123547 — Matrix: Solid — Date Prep: 04.20.2020
MB Sample Id: 7701592-1-BLK — LCS Sample Id: 7701592-1-BKS — LCSD Sample Id: 7701592-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	274	110	270	108	90-110	1	20	mg/kg	04.20.2020 19:04	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3123547 — Matrix: Soil — Date Prep: 04.20.2020
Parent Sample Id: 659247-003 — MS Sample Id: 659247-003 S — MSD Sample Id: 659247-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	18.1	200	233	107	233	108	90-110	0	20	mg/kg	04.20.2020 19:20	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3123547 — Matrix: Soil — Date Prep: 04.20.2020
Parent Sample Id: 659247-013 — MS Sample Id: 659247-013 S — MSD Sample Id: 659247-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	215	108	216	108	90-110	0	20	mg/kg	04.20.2020 20:37	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3123594 — Matrix: Solid — Date Prep: 04.20.2020
MB Sample Id: 7701656-1-BLK — LCS Sample Id: 7701656-1-BKS — LCSD Sample Id: 7701656-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	916	92	850	85	70-135	7	35	mg/kg	04.20.2020 12:30	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	912	91	70-135	11	35	mg/kg	04.20.2020 12:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	71		96		90		70-135	%	04.20.2020 12:30
o-Terphenyl	70		91		83		70-135	%	04.20.2020 12:30

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3123594 — Matrix: Solid — Date Prep: 04.20.2020
MB Sample Id: 7701656-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.20.2020 12:09	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Final 1.000

QC Summary 659288

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3123594 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659247-001 MS Sample Id: 659247-001 S MSD Sample Id: 659247-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1100	110	1210	121	70-135	10	35	mg/kg	04.20.2020 13:30	
Diesel Range Organics (DRO)	<50.2	1000	1080	108	1220	122	70-135	12	35	mg/kg	04.20.2020 13:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		123		70-135	%	04.20.2020 13:30
o-Terphenyl	111		123		70-135	%	04.20.2020 13:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123538 Matrix: Solid Date Prep: 04.20.2020
MB Sample Id: 7701580-1-BLK LCS Sample Id: 7701580-1-BKS LCSD Sample Id: 7701580-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.114	114	0.112	112	70-130	2	35	mg/kg	04.20.2020 10:27	
Toluene	<0.00200	0.100	0.108	108	0.108	108	70-130	0	35	mg/kg	04.20.2020 10:27	
Ethylbenzene	<0.00200	0.100	0.0979	98	0.0992	99	71-129	1	35	mg/kg	04.20.2020 10:27	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.201	101	70-135	1	35	mg/kg	04.20.2020 10:27	
o-Xylene	<0.00200	0.100	0.102	102	0.103	103	71-133	1	35	mg/kg	04.20.2020 10:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		104		105		70-130	%	04.20.2020 10:27
4-Bromofluorobenzene	93		91		92		70-130	%	04.20.2020 10:27

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123538 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659235-001 MS Sample Id: 659235-001 S MSD Sample Id: 659235-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0981	98	0.0946	95	70-130	4	35	mg/kg	04.20.2020 12:30	
Toluene	<0.00200	0.100	0.0927	93	0.0895	90	70-130	4	35	mg/kg	04.20.2020 12:30	
Ethylbenzene	<0.00200	0.100	0.0849	85	0.0824	83	71-129	3	35	mg/kg	04.20.2020 12:30	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.169	85	70-135	2	35	mg/kg	04.20.2020 12:30	
o-Xylene	<0.00200	0.100	0.0863	86	0.0843	85	71-133	2	35	mg/kg	04.20.2020 12:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		103		70-130	%	04.20.2020 12:30
4-Bromofluorobenzene	93		92		70-130	%	04.20.2020 12:30

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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Chain of Custody

Work Order No: 1059288

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 701-2610	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	012918152	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	2.4	Thermometer ID	T-NM-007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
FS13	S	04/15/20	1110	0.5'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Composite

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 Tl 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 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
Robb McAfee		4/20/20 1435	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 11 of 12

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.20.2020 02.35.00 PM

Work Order #: 659288

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.4
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.20.2020

Checklist reviewed by: Jessica Kramer Date: 04.21.2020

Jessica Kramer

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Certificate of Analysis Summary 659293

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 04.20.2020 14:35
Report Date: 11.05.2020 07:56
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	659293-001		659293-002		659293-003					
	Field Id:	FS10A		FS14		FS15					
	Depth:	2.5- ft		1.75- ft		2.0- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	04.16.2020 13:55		04.17.2020 10:15		04.20.2020 11:20					
BTEX by EPA 8021B	***Extracted:***	04.20.2020 16:00		04.20.2020 17:08		04.20.2020 17:08					
	Analyzed:	04.20.2020 20:39		04.20.2020 23:43		04.21.2020 00:03					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
m,p-Xylenes		<0.00398	0.00398	<0.00401	0.00401	<0.00404	0.00404				
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202				
Chloride by EPA 300	***Extracted:***	04.20.2020 17:25		04.20.2020 17:25		04.20.2020 17:25					
	Analyzed:	04.20.2020 22:23		04.20.2020 22:41		04.20.2020 22:47					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		62.9	9.96	161	98.8	426	99.8				
TPH by SW8015 Mod	***Extracted:***	04.20.2020 16:00		04.20.2020 16:00		04.20.2020 16:00					
	Analyzed:	04.20.2020 17:56		04.20.2020 18:16		04.20.2020 18:36					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1				
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1				
Total GRO-DRO		<50.2	50.2	<49.8	49.8	<50.1	50.1				
Total TPH		<50.2	50.2	<49.8	49.8	<50.1	50.1				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 659293

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

012918152

11.05.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.05.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **659293**
Remuda Basin CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 659293. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659293 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 659293

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS10A	S	04.16.2020 13:55	2.5 ft	659293-001
FS14	S	04.17.2020 10:15	1.75 ft	659293-002
FS15	S	04.20.2020 11:20	2.0 ft	659293-003

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *659293*

Report Date: *11.05.2020*
Date Received: *04.20.2020*

Sample receipt non conformances and comments:

Revision - Corrected sample 001 ID from FS10 to FS10A

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123538 BTEX by EPA 8021B
Soil samples received in bulk containers.

Batch: LBA-3123539 BTEX by EPA 8021B
Soil samples received in bulk containers.

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Certificate of Analytical Results 659293

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **FS10A** Matrix: Soil Date Received:04.20.2020 14:35

Lab Sample Id: 659293-001 Date Collected: 04.16.2020 13:55 Sample Depth: 2.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 04.20.2020 17:25 % Moisture:

Seq Number: 3123548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**62.9**	9.96	mg/kg	04.20.2020 22:23		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 04.20.2020 16:00 % Moisture:

Seq Number: 3123594 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.20.2020 17:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.20.2020 17:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.20.2020 17:56	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.20.2020 17:56	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.20.2020 17:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	04.20.2020 17:56	
o-Terphenyl	84-15-1	113	%	70-135	04.20.2020 17:56	

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Certificate of Analytical Results 659293

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS10A**	Matrix:	Soil	Date Received:	04.20.2020 14:35
Lab Sample Id:	659293-001	Date Collected:	04.16.2020 13:55	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB				
Analyst:	MAB	Date Prep:	04.20.2020 16:00	% Moisture:	
Seq Number:	3123538			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.20.2020 20:39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.20.2020 20:39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.20.2020 20:39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.20.2020 20:39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.20.2020 20:39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.20.2020 20:39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.20.2020 20:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.20.2020 20:39	
4-Bromofluorobenzene	460-00-4	94	%	70-130	04.20.2020 20:39	

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Certificate of Analytical Results 659293

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	04.20.2020 14:35
Lab Sample Id:	659293-002	Date Collected:	04.17.2020 10:15	Sample Depth:	1.75 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	04.20.2020 17:25	% Moisture:	
Seq Number:	3123548			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**161**	98.8	mg/kg	04.20.2020 22:41		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	04.20.2020 16:00	% Moisture:	
Seq Number:	3123594			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.20.2020 18:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.20.2020 18:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.20.2020 18:16	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	04.20.2020 18:16	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.20.2020 18:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	04.20.2020 18:16	
o-Terphenyl	84-15-1	117	%	70-135	04.20.2020 18:16	

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Certificate of Analytical Results 659293

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	04.20.2020 14:35
Lab Sample Id:	659293-002	Date Collected:	04.17.2020 10:15	Sample Depth:	1.75 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB				
Analyst:	MAB	Date Prep:	04.20.2020 17:08	% Moisture:	
Seq Number:	3123539			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.20.2020 23:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.20.2020 23:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.20.2020 23:43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.20.2020 23:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.20.2020 23:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.20.2020 23:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.20.2020 23:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	04.20.2020 23:43	
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.20.2020 23:43	

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Certificate of Analytical Results 659293

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	04.20.2020 14:35
Lab Sample Id:	659293-003	Date Collected:	04.20.2020 11:20	Sample Depth:	2.0 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	04.20.2020 17:25	% Moisture:	
Seq Number:	3123548			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**426**	99.8	mg/kg	04.20.2020 22:47		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	04.20.2020 16:00	% Moisture:	
Seq Number:	3123594			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.20.2020 18:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.20.2020 18:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.20.2020 18:36	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.20.2020 18:36	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.20.2020 18:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	04.20.2020 18:36	
o-Terphenyl	84-15-1	107	%	70-135	04.20.2020 18:36	

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Certificate of Analytical Results 659293

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	04.20.2020 14:35
Lab Sample Id:	659293-003	Date Collected:	04.20.2020 11:20	Sample Depth:	2.0 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB				
Analyst:	MAB	Date Prep:	04.20.2020 17:08	% Moisture:	
Seq Number:	3123539			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.21.2020 00:03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.21.2020 00:03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.21.2020 00:03	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.21.2020 00:03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.21.2020 00:03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.21.2020 00:03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.21.2020 00:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	04.21.2020 00:03	
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.21.2020 00:03	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 659293

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3123548 — Matrix: Solid — Date Prep: 04.20.2020
MB Sample Id: 7701627-1-BLK — LCS Sample Id: 7701627-1-BKS — LCSD Sample Id: 7701627-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	300	278	93	279	93	90-110	0	20	mg/kg	04.20.2020 22:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3123548 — Matrix: Soil — Date Prep: 04.20.2020
Parent Sample Id: 659293-001 — MS Sample Id: 659293-001 S — MSD Sample Id: 659293-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	62.9	200	266	102	269	103	90-110	1	20	mg/kg	04.20.2020 22:29	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3123548 — Matrix: Soil — Date Prep: 04.20.2020
Parent Sample Id: 659315-002 — MS Sample Id: 659315-002 S — MSD Sample Id: 659315-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	180	199	368	94	378	99	90-110	3	20	mg/kg	04.20.2020 23:51	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3123594 — Matrix: Solid — Date Prep: 04.20.2020
MB Sample Id: 7701656-1-BLK — LCS Sample Id: 7701656-1-BKS — LCSD Sample Id: 7701656-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	916	92	850	85	70-135	7	35	mg/kg	04.20.2020 12:30	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	912	91	70-135	11	35	mg/kg	04.20.2020 12:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	71		96		90		70-135	%	04.20.2020 12:30
o-Terphenyl	70		91		83		70-135	%	04.20.2020 12:30

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3123594 — Matrix: Solid — Date Prep: 04.20.2020
MB Sample Id: 7701656-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.20.2020 12:09	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 659293

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3123594 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659247-001 MS Sample Id: 659247-001 S MSD Sample Id: 659247-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1100	110	1210	121	70-135	10	35	mg/kg	04.20.2020 13:30	
Diesel Range Organics (DRO)	<50.2	1000	1080	108	1220	122	70-135	12	35	mg/kg	04.20.2020 13:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		123		70-135	%	04.20.2020 13:30
o-Terphenyl	111		123		70-135	%	04.20.2020 13:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123538 Matrix: Solid Date Prep: 04.20.2020
MB Sample Id: 7701580-1-BLK LCS Sample Id: 7701580-1-BKS LCSD Sample Id: 7701580-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.114	114	0.112	112	70-130	2	35	mg/kg	04.20.2020 10:27	
Toluene	<0.00200	0.100	0.108	108	0.108	108	70-130	0	35	mg/kg	04.20.2020 10:27	
Ethylbenzene	<0.00200	0.100	0.0979	98	0.0992	99	71-129	1	35	mg/kg	04.20.2020 10:27	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.201	101	70-135	1	35	mg/kg	04.20.2020 10:27	
o-Xylene	<0.00200	0.100	0.102	102	0.103	103	71-133	1	35	mg/kg	04.20.2020 10:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		104		105		70-130	%	04.20.2020 10:27
4-Bromofluorobenzene	93		91		92		70-130	%	04.20.2020 10:27

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123539 Matrix: Solid Date Prep: 04.20.2020
MB Sample Id: 7701629-1-BLK LCS Sample Id: 7701629-1-BKS LCSD Sample Id: 7701629-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.108	108	0.105	105	70-130	3	35	mg/kg	04.20.2020 22:01	
Toluene	<0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	04.20.2020 22:01	
Ethylbenzene	<0.00200	0.100	0.0958	96	0.0949	95	71-129	1	35	mg/kg	04.20.2020 22:01	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.194	97	70-135	2	35	mg/kg	04.20.2020 22:01	
o-Xylene	<0.00200	0.100	0.100	100	0.0984	98	71-133	2	35	mg/kg	04.20.2020 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		104		104		70-130	%	04.20.2020 22:01
4-Bromofluorobenzene	94		92		93		70-130	%	04.20.2020 22:01

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 659293

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LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123538 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659235-001 MS Sample Id: 659235-001 S MSD Sample Id: 659235-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0981	98	0.0946	95	70-130	4	35	mg/kg	04.20.2020 12:30	
Toluene	<0.00200	0.100	0.0927	93	0.0895	90	70-130	4	35	mg/kg	04.20.2020 12:30	
Ethylbenzene	<0.00200	0.100	0.0849	85	0.0824	83	71-129	3	35	mg/kg	04.20.2020 12:30	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.169	85	70-135	2	35	mg/kg	04.20.2020 12:30	
o-Xylene	<0.00200	0.100	0.0863	86	0.0843	85	71-133	2	35	mg/kg	04.20.2020 12:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		103		70-130	%	04.20.2020 12:30
4-Bromofluorobenzene	93		92		70-130	%	04.20.2020 12:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3123539 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659293-002 MS Sample Id: 659293-002 S MSD Sample Id: 659293-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.104	103	0.109	108	70-130	5	35	mg/kg	04.20.2020 22:42	
Toluene	<0.00202	0.101	0.0983	97	0.104	103	70-130	6	35	mg/kg	04.20.2020 22:42	
Ethylbenzene	<0.00202	0.101	0.0914	90	0.0973	96	71-129	6	35	mg/kg	04.20.2020 22:42	
m,p-Xylenes	<0.00403	0.202	0.186	92	0.200	100	70-135	7	35	mg/kg	04.20.2020 22:42	
o-Xylene	<0.00202	0.101	0.0943	93	0.100	99	71-133	6	35	mg/kg	04.20.2020 22:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	04.20.2020 22:42
4-Bromofluorobenzene	94		94		70-130	%	04.20.2020 22:42

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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Chain of Custody

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 659293

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 701-2610	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	012918152	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	2.4	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	3	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
FS10	S	04/16/20	1355	2.5'	1	X	X	X
FS14		04/17/20	1015	1.75'		X	X	X
FS15		04/20/20	1120	2.0'		X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Composite

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 Tl 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 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
Robert McAfee		4/20/20 14:35	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Final 1.001
Page 16 of 17
Released to Imaging: 2/10/2026 2:25:28 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.20.2020 02.35.00 PM

Work Order #: 659293

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.4
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.20.2020

Checklist reviewed by: Jessica Kramer Date: 04.21.2020

Jessica Kramer

Certificate of Analysis Summary 661355

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Tacoma Morrissey
Project Location:

Date Received in Lab: Wed 05.13.2020 08:55
Report Date: 05.15.2020 15:42
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	661355-001					
	Field Id:	FS16					
	Depth:	2.5- ft					
	Matrix:	SOIL					
	Sampled:	05.12.2020 11:15					
BTEX by EPA 8021B	***Extracted:***	05.13.2020 11:21					
	Analyzed:	05.13.2020 14:58					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00401 0.00401					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	05.13.2020 12:02					
	Analyzed:	05.13.2020 12:48					
	Units/RL:	mg/kg RL					
Chloride		101 X 99.0					
TPH by SW8015 Mod	***Extracted:***	05.14.2020 12:00					
	Analyzed:	05.14.2020 18:46					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1					
Diesel Range Organics (DRO)		<50.1 50.1					
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1					
Total GRO-DRO		<50.1 50.1					
Total TPH		<50.1 50.1					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Manager

Analytical Report 661355

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

Remuda Basin CTB

012918152

05.15.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.15.2020

Project Manager: **Tacoma Morrissey**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **661355**
Remuda Basin CTB
Project Address:

Tacoma Morrissey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661355. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661355 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 661355

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS16	S	05.12.2020 11:15	2.5 ft	661355-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *661355*

Report Date: *05.15.2020*
Date Received: *05.13.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3125878 Chloride by EPA 300

Lab Sample ID 661355-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 661355-001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analytical Results 661355

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	05.13.2020 08:55
Lab Sample Id:	661355-001	Date Collected:	05.12.2020 11:15	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.13.2020 12:02	Basis:	Wet Weight
Seq Number:	3125878				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**101**	99.0	mg/kg	05.13.2020 12:48	X	10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	05.14.2020 12:00	Basis:	Wet Weight
Seq Number:	3126032				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.14.2020 18:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.14.2020 18:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.14.2020 18:46	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	05.14.2020 18:46	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.14.2020 18:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	05.14.2020 18:46	
o-Terphenyl	84-15-1	108	%	70-135	05.14.2020 18:46	

Certificate of Analytical Results 661355

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	05.13.2020 08:55
Lab Sample Id:	661355-001	Date Collected:	05.12.2020 11:15	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.13.2020 11:21	Basis:	Wet Weight
Seq Number:	3125869				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 14:58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 14:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 14:58	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.13.2020 14:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 14:58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 14:58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 14:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.13.2020 14:58	
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.13.2020 14:58	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 661355

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3125878 — Matrix: Solid — Date Prep: 05.13.2020
MB Sample Id: 7703240-1-BLK — LCS Sample Id: 7703240-1-BKS — LCSD Sample Id: 7703240-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	250	100	90-110	0	20	mg/kg	05.13.2020 12:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3125878 — Matrix: Soil — Date Prep: 05.13.2020
Parent Sample Id: 661355-001 — MS Sample Id: 661355-001 S — MSD Sample Id: 661355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	101	202	276	87	278	88	90-110	1	20	mg/kg	05.13.2020 12:54	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3125878 — Matrix: Soil — Date Prep: 05.13.2020
Parent Sample Id: 661356-010 — MS Sample Id: 661356-010 S — MSD Sample Id: 661356-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	197	200	380	92	380	92	90-110	0	20	mg/kg	05.13.2020 14:16	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126032 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703325-1-BLK — LCS Sample Id: 7703325-1-BKS — LCSD Sample Id: 7703325-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	990	99	1030	103	70-135	4	35	mg/kg	05.14.2020 14:16	
Diesel Range Organics (DRO)	<50.0	1000	1080	108	1130	113	70-135	5	35	mg/kg	05.14.2020 14:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		116		122		70-135	%	05.14.2020 14:16
o-Terphenyl	114		118		122		70-135	%	05.14.2020 14:16

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126032 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703325-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.14.2020 13:55	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

QC Summary 661355

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3126032 Matrix: Soil Date Prep: 05.14.2020
Parent Sample Id: 661339-003 MS Sample Id: 661339-003 S MSD Sample Id: 661339-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	966	97	959	96	70-135	1	35	mg/kg	05.14.2020 15:18	
Diesel Range Organics (DRO)	<50.2	1000	1090	109	1040	104	70-135	5	35	mg/kg	05.14.2020 15:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		93		70-135	%	05.14.2020 15:18
o-Terphenyl	120		77		70-135	%	05.14.2020 15:18

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3125869 Matrix: Solid Date Prep: 05.13.2020
MB Sample Id: 7703236-1-BLK LCS Sample Id: 7703236-1-BKS LCSD Sample Id: 7703236-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.120	120	0.117	117	70-130	3	35	mg/kg	05.13.2020 12:50	
Toluene	<0.00200	0.100	0.110	110	0.0931	93	70-130	17	35	mg/kg	05.13.2020 12:50	
Ethylbenzene	<0.00200	0.100	0.105	105	0.108	108	71-129	3	35	mg/kg	05.13.2020 12:50	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.194	97	70-135	5	35	mg/kg	05.13.2020 12:50	
o-Xylene	<0.00200	0.100	0.103	103	0.100	100	71-133	3	35	mg/kg	05.13.2020 12:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		107		108		70-130	%	05.13.2020 12:50
4-Bromofluorobenzene	104		100		101		70-130	%	05.13.2020 12:50

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3125869 Matrix: Soil Date Prep: 05.13.2020
Parent Sample Id: 661355-001 MS Sample Id: 661355-001 S MSD Sample Id: 661355-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.120	120	0.122	122	70-130	2	35	mg/kg	05.13.2020 13:33	
Toluene	<0.00200	0.0998	0.110	110	0.113	113	70-130	3	35	mg/kg	05.13.2020 13:33	
Ethylbenzene	<0.00200	0.0998	0.103	103	0.107	107	71-129	4	35	mg/kg	05.13.2020 13:33	
m,p-Xylenes	<0.00399	0.200	0.200	100	0.207	104	70-135	3	35	mg/kg	05.13.2020 13:33	
o-Xylene	<0.00200	0.0998	0.102	102	0.105	105	71-133	3	35	mg/kg	05.13.2020 13:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		106		70-130	%	05.13.2020 13:33
4-Bromofluorobenzene	102		102		70-130	%	05.13.2020 13:33

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Page 662 of 758

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 1e1355

Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com kjennings@ltenv.com tcasey@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	012918152	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	3.4	Thermometer ID	
Received Intact:	Yes No	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
FS16	S	5-12-20	1115	2.5'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

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 Tl 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 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	Travis Casey		5/13/20 855	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 1/22/2025 10:49:05 AM
Final 1.000
Page 11 of 12
Released to Imaging: 2/10/2026 2:25:28 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 05.13.2020 08.55.00 AM

Work Order #: 661355

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Sample received in bulk container.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 05.13.2020

Checklist reviewed by: Jessica Kramer Date: 05.14.2020

Jessica Kramer

Certificate of Analysis Summary 661533

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id:

Contact: Tacoma Morrissey

Project Location:

Date Received in Lab: Wed 05.13.2020 16:30

Report Date: 05.14.2020 12:25

Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	661533-001					
	Field Id:	FS17					
	Depth:	0.5-1 ft					
	Matrix:	SOIL					
	Sampled:	05.13.2020 13:20					
BTEX by EPA 8021B	***Extracted:***	05.13.2020 17:06					
	Analyzed:	05.13.2020 20:23					
	Units/RL:	mg/kg	RL				
Benzene		<0.00234	0.00234				
Toluene		<0.00234	0.00234				
Ethylbenzene		0.147	0.00935				
m,p-Xylenes		0.0484	0.0187				
o-Xylene		0.0980	0.00935				
Total Xylenes		0.146	0.00935				
Total BTEX		0.293	0.00234				
Chloride by EPA 300	***Extracted:***	05.13.2020 16:59					
	Analyzed:	05.13.2020 20:26					
	Units/RL:	mg/kg	RL				
Chloride		7810	99.6				
TPH by SW8015 Mod	***Extracted:***	05.13.2020 17:30					
	Analyzed:	05.14.2020 06:00					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		277	251				
Diesel Range Organics (DRO)		9560	502				
Motor Oil Range Hydrocarbons (MRO)		1000	502				
Total GRO-DRO		9840	251				
Total TPH		10800	251				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Manager

Analytical Report 661533

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

Remuda Basin CTB

05.14.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.14.2020

Project Manager: **Tacoma Morrissey**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **661533**
Remuda Basin CTB
Project Address:

Tacoma Morrissey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661533. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 661533

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS17	S	05.13.2020 13:20	0.5 - 1 ft	661533-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID:
Work Order Number(s): *661533*

Report Date: *05.14.2020*
Date Received: *05.13.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 661533

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	05.13.2020 16:30
Lab Sample Id:	661533-001	Date Collected:	05.13.2020 13:20	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.13.2020 16:59	Basis:	Wet Weight
Seq Number:	3125884				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7810**	99.6	mg/kg	05.13.2020 20:26		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	05.13.2020 17:30	Basis:	Wet Weight
Seq Number:	3125891				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**277**	251	mg/kg	05.14.2020 06:00		10
Diesel Range Organics (DRO)	C10C28DRO	**9560**	502	mg/kg	05.14.2020 06:00		10
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**1000**	502	mg/kg	05.14.2020 06:00		10
Total GRO-DRO	PHC628	**9840**	251	mg/kg	05.14.2020 06:00		10
Total TPH	PHC635	**10800**	251	mg/kg	05.14.2020 06:00		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	131	%	70-135	05.14.2020 06:00	
o-Terphenyl	84-15-1	116	%	70-135	05.14.2020 06:00	

Certificate of Analytical Results 661533

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	05.13.2020 16:30
Lab Sample Id:	661533-001	Date Collected:	05.13.2020 13:20	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.13.2020 17:06	Basis:	Wet Weight
Seq Number:	3125871				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00234	0.00234	mg/kg	05.13.2020 20:23	U	1
Toluene	108-88-3	<0.00234	0.00234	mg/kg	05.13.2020 20:23	U	1
Ethylbenzene	100-41-4	**0.147**	0.00935	mg/kg	05.13.2020 20:23		1
m,p-Xylenes	179601-23-1	**0.0484**	0.0187	mg/kg	05.13.2020 20:23		1
o-Xylene	95-47-6	**0.0980**	0.00935	mg/kg	05.13.2020 20:23		1
Total Xylenes	1330-20-7	**0.146**	0.00935	mg/kg	05.13.2020 20:23		1
Total BTEX		**0.293**	0.00234	mg/kg	05.13.2020 20:23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	05.13.2020 20:23	
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.13.2020 20:23	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 661533

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3125884 — Matrix: Solid — Date Prep: 05.13.2020
MB Sample Id: 7703272-1-BLK — LCS Sample Id: 7703272-1-BKS — LCSD Sample Id: 7703272-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	250	100	90-110	0	20	mg/kg	05.13.2020 19:04	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3125884 — Matrix: Soil — Date Prep: 05.13.2020
Parent Sample Id: 661488-008 — MS Sample Id: 661488-008 S — MSD Sample Id: 661488-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	208	200	404	98	403	98	90-110	0	20	mg/kg	05.13.2020 19:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3125884 — Matrix: Soil — Date Prep: 05.13.2020
Parent Sample Id: 661526-002 — MS Sample Id: 661526-002 S — MSD Sample Id: 661526-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	898	198	1080	92	1100	100	90-110	2	20	mg/kg	05.13.2020 20:44	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125891 — Matrix: Solid — Date Prep: 05.13.2020
MB Sample Id: 7703300-1-BLK — LCS Sample Id: 7703300-1-BKS — LCSD Sample Id: 7703300-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	905	91	903	90	70-135	0	35	mg/kg	05.13.2020 22:04	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1050	105	70-135	0	35	mg/kg	05.13.2020 22:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		116		114		70-135	%	05.13.2020 22:04
o-Terphenyl	110		116		116		70-135	%	05.13.2020 22:04

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3125891 — Matrix: Solid — Date Prep: 05.13.2020
MB Sample Id: 7703300-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.13.2020 21:43	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 661533

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3125891 Matrix: Soil Date Prep: 05.13.2020
Parent Sample Id: 661488-001 MS Sample Id: 661488-001 S MSD Sample Id: 661488-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	954	95	914	91	70-135	4	35	mg/kg	05.13.2020 23:07	
Diesel Range Organics (DRO)	113	1000	1230	112	1170	106	70-135	5	35	mg/kg	05.13.2020 23:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		119		70-135	%	05.13.2020 23:07
o-Terphenyl	120		117		70-135	%	05.13.2020 23:07

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3125871 Matrix: Solid Date Prep: 05.13.2020
MB Sample Id: 7703274-1-BLK LCS Sample Id: 7703274-1-BKS LCSD Sample Id: 7703274-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.108	108	0.106	106	70-130	2	35	mg/kg	05.13.2020 17:19	
Toluene	<0.00200	0.100	0.104	104	0.104	104	70-130	0	35	mg/kg	05.13.2020 17:19	
Ethylbenzene	<0.00200	0.100	0.0991	99	0.0982	98	71-129	1	35	mg/kg	05.13.2020 17:19	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.203	102	70-135	1	35	mg/kg	05.13.2020 17:19	
o-Xylene	<0.00200	0.100	0.104	104	0.102	102	71-133	2	35	mg/kg	05.13.2020 17:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		104		103		70-130	%	05.13.2020 17:19
4-Bromofluorobenzene	97		92		94		70-130	%	05.13.2020 17:19

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3125871 Matrix: Soil Date Prep: 05.13.2020
Parent Sample Id: 661356-020 MS Sample Id: 661356-020 S MSD Sample Id: 661356-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.108	108	0.104	104	70-130	4	35	mg/kg	05.13.2020 18:00	
Toluene	<0.00200	0.0998	0.103	103	0.0998	100	70-130	3	35	mg/kg	05.13.2020 18:00	
Ethylbenzene	<0.00200	0.0998	0.0962	96	0.0920	92	71-129	4	35	mg/kg	05.13.2020 18:00	
m,p-Xylenes	<0.00399	0.200	0.198	99	0.188	94	70-135	5	35	mg/kg	05.13.2020 18:00	
o-Xylene	<0.00200	0.0998	0.100	100	0.0950	95	71-133	5	35	mg/kg	05.13.2020 18:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		109		70-130	%	05.13.2020 18:00
4-Bromofluorobenzene	95		95		70-130	%	05.13.2020 18:00

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Page 674 of 758

Chain of Custody

Work Order No: 1061533

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178 Email:		tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:		Routine	☐
P.O. Number:		Rush:	24hr
Sampler's Name:	Travis Casey	Due Date:	5-14-20

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	2.0	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS17	S	5-13-20	1320	0.5-1'	1	X	X	X	composite

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl 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 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 Travis Casey		5/13/20 16:30	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 11 of 12

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 05.13.2020 04.30.00 PM

Work Order #: 661533

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Sample received in bulk container.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 05.13.2020

Checklist reviewed by: Jessica Kramer Date: 05.14.2020

Jessica Kramer

Certificate of Analysis Summary 661637

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

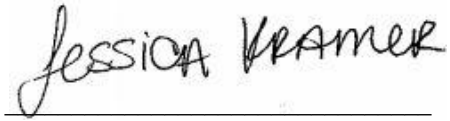
Project Id: 012918152
Contact: Tacoma Morrissey
Project Location:

Date Received in Lab: Thu 05.14.2020 14:03
Report Date: 05.15.2020 13:39
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	661637-001					
	Field Id:	FS18					
	Depth:	1- ft					
	Matrix:	SOIL					
	Sampled:	05.14.2020 10:05					
BTEX by EPA 8021B	***Extracted:***	05.14.2020 14:39					
	Analyzed:	05.15.2020 10:03					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00399	0.00399				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	05.14.2020 15:23					
	Analyzed:	05.14.2020 16:18					
	Units/RL:	mg/kg	RL				
Chloride		146	100				
TPH by SW8015 Mod	***Extracted:***	05.14.2020 17:30					
	Analyzed:	05.15.2020 02:21					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0				
Total GRO-DRO		<50.0	50.0				
Total TPH		<50.0	50.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Jessica Kramer
Project Manager

Analytical Report 661637

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

Remuda Basin CTB

012918152

05.15.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.15.2020

Project Manager: **Tacoma Morrissey**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **661637**
Remuda Basin CTB
Project Address:

Tacoma Morrissey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661637. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 661637 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 661637

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS18	S	05.14.2020 10:05	1 ft	661637-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *661637*

Report Date: *05.15.2020*
Date Received: *05.14.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 661637

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	05.14.2020 14:03
Lab Sample Id:	661637-001	Date Collected:	05.14.2020 10:05	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.14.2020 15:23	Basis:	Wet Weight
Seq Number:	3126022				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**146**	100	mg/kg	05.14.2020 16:18		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	05.14.2020 17:30	Basis:	Wet Weight
Seq Number:	3126041				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.15.2020 02:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.15.2020 02:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.15.2020 02:21	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	05.15.2020 02:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.15.2020 02:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	05.15.2020 02:21	
o-Terphenyl	84-15-1	126	%	70-135	05.15.2020 02:21	

Certificate of Analytical Results 661637

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	05.14.2020 14:03
Lab Sample Id:	661637-001	Date Collected:	05.14.2020 10:05	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.14.2020 14:39	Basis:	Wet Weight
Seq Number:	3126047				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.15.2020 10:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.15.2020 10:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.15.2020 10:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.15.2020 10:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.15.2020 10:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.15.2020 10:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.15.2020 10:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.15.2020 10:03	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.15.2020 10:03	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 661637

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3126022 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703314-1-BLK — LCS Sample Id: 7703314-1-BKS — LCSD Sample Id: 7703314-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	250	100	249	100	90-110	0	20	mg/kg	05.14.2020 13:15	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3126022 — Matrix: Soil — Date Prep: 05.14.2020
Parent Sample Id: 661534-001 — MS Sample Id: 661534-001 S — MSD Sample Id: 661534-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	551	199	741	95	740	95	90-110	0	20	mg/kg	05.14.2020 13:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3126022 — Matrix: Soil — Date Prep: 05.14.2020
Parent Sample Id: 661534-011 — MS Sample Id: 661534-011 S — MSD Sample Id: 661534-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.1	201	246	94	246	94	90-110	0	20	mg/kg	05.14.2020 14:55	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126041 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703406-1-BLK — LCS Sample Id: 7703406-1-BKS — LCSD Sample Id: 7703406-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	999	100	1010	101	70-135	1	35	mg/kg	05.15.2020 00:16	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1120	112	70-135	0	35	mg/kg	05.15.2020 00:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		118		120		70-135	%	05.15.2020 00:16
o-Terphenyl	117		125		120		70-135	%	05.15.2020 00:16

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3126041 — Matrix: Solid — Date Prep: 05.14.2020
MB Sample Id: 7703406-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.14.2020 23:56	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 661637

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3126041 Matrix: Soil Date Prep: 05.14.2020
Parent Sample Id: 661534-009 MS Sample Id: 661534-009 S MSD Sample Id: 661534-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1120	112	1070	106	70-135	5	35	mg/kg	05.15.2020 01:18	
Diesel Range Organics (DRO)	<50.1	1000	1100	110	1210	120	70-135	10	35	mg/kg	05.15.2020 01:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		127		70-135	%	05.15.2020 01:18
o-Terphenyl	116		132		70-135	%	05.15.2020 01:18

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3126047 Matrix: Solid Date Prep: 05.14.2020
MB Sample Id: 7703381-1-BLK LCS Sample Id: 7703381-1-BKS LCSD Sample Id: 7703381-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.101	101	70-130	6	35	mg/kg	05.14.2020 16:04	
Toluene	<0.00200	0.100	0.103	103	0.0974	97	70-130	6	35	mg/kg	05.14.2020 16:04	
Ethylbenzene	<0.00200	0.100	0.0974	97	0.0926	93	71-129	5	35	mg/kg	05.14.2020 16:04	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.192	96	70-135	5	35	mg/kg	05.14.2020 16:04	
o-Xylene	<0.00200	0.100	0.101	101	0.0971	97	71-133	4	35	mg/kg	05.14.2020 16:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		104		100		70-130	%	05.14.2020 16:04
4-Bromofluorobenzene	97		93		91		70-130	%	05.14.2020 16:04

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3126047 Matrix: Soil Date Prep: 05.14.2020
Parent Sample Id: 661635-001 MS Sample Id: 661635-001 S MSD Sample Id: 661635-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.107	108	0.0992	100	70-130	8	35	mg/kg	05.14.2020 16:45	
Toluene	0.00986	0.0992	0.106	97	0.0955	87	70-130	10	35	mg/kg	05.14.2020 16:45	
Ethylbenzene	0.0147	0.0992	0.0911	77	0.0894	75	71-129	2	35	mg/kg	05.14.2020 16:45	
m,p-Xylenes	0.0337	0.198	0.191	79	0.183	75	70-135	4	35	mg/kg	05.14.2020 16:45	
o-Xylene	0.0207	0.0992	0.0979	78	0.0939	74	71-133	4	35	mg/kg	05.14.2020 16:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		105		70-130	%	05.14.2020 16:45
4-Bromofluorobenzene	95		94		70-130	%	05.14.2020 16:45

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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Chain of Custody

Work Order No: 1e1lc037

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178 Email:		tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	012918152	Routine ☐	
P.O. Number:		Rush: 24 hr	
Sampler's Name:	Travis Casey	Due Date: 5-15-20	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.8	Thermometer ID	TM1007
Received Intact:	(Yes) No	Correction Factor:	-0.2
Cooler Custody Seals:	Yes (No) N/A	Total Containers:	1
Sample Custody Seals:	Yes (No) N/A		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
FS18	S	5-14-20	1005	1'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Composite

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 Tl 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 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 Travis Casey		5/14/20 14:03	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 11 of 12

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 05.14.2020 02.03.00 PM

Work Order #: 661637

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.8	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Sample received in bulk container.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 05.14.2020

Checklist reviewed by: Jessica Kramer Date: 05.15.2020

Certificate of Analysis Summary 666199

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Tacoma Morrissey
Project Location:

Date Received in Lab: Thu 07.02.2020 09:20
Report Date: 07.09.2020 13:56
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	666199-001					
	Field Id:	FS19					
	Depth:	1-3 ft					
	Matrix:	SOIL					
	Sampled:	07.02.2020 08:30					
BTEX by EPA 8021B	***Extracted:***	07.02.2020 13:09					
	Analyzed:	07.02.2020 18:43					
	Units/RL:	mg/kg	RL				
Benzene		<0.0101	0.0101				
Toluene		<0.0101	0.0101				
Ethylbenzene		<0.0101	0.0101				
m,p-Xylenes		<0.0202	0.0202				
o-Xylene		<0.0101	0.0101				
Total Xylenes		<0.0101	0.0101				
Total BTEX		<0.0101	0.0101				
Chloride by EPA 300	***Extracted:***	07.02.2020 14:00					
	Analyzed:	07.02.2020 14:53					
	Units/RL:	mg/kg	RL				
Chloride		450	50.1				
TPH by SW8015 Mod	***Extracted:***	07.02.2020 15:00					
	Analyzed:	07.02.2020 18:29					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8				
Diesel Range Organics (DRO)		2830	49.8				
Motor Oil Range Hydrocarbons (MRO)		353	49.8				
Total GRO-DRO		2830	49.8				
Total TPH		3180	49.8				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Analytical Report 666199

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

Remuda Basin CTB

012918152

07.09.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07.09.2020

Project Manager: **Tacoma Morrissey**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **666199**
Remuda Basin CTB
Project Address:

Tacoma Morrissey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 666199. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 666199 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Released to Imaging: 2/10/2026 2:25:28 PM

Sample Cross Reference 666199

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS19	S	07.02.2020 08:30	1 - 3 ft	666199-001

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *666199*

Report Date: *07.09.2020*
Date Received: *07.02.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 666199

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id: **FS19** Matrix: Soil Date Received:07.02.2020 09:20

Lab Sample Id: 666199-001 Date Collected: 07.02.2020 08:30 Sample Depth: 1 - 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 07.02.2020 14:00 Basis: Wet Weight

Seq Number: 3130685

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**450**	50.1	mg/kg	07.02.2020 14:53		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 07.02.2020 15:00 Basis: Wet Weight

Seq Number: 3130683

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.02.2020 18:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2830**	49.8	mg/kg	07.02.2020 18:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**353**	49.8	mg/kg	07.02.2020 18:29		1
Total GRO-DRO	PHC628	**2830**	49.8	mg/kg	07.02.2020 18:29		1
Total TPH	PHC635	**3180**	49.8	mg/kg	07.02.2020 18:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	07.02.2020 18:29	
o-Terphenyl	84-15-1	96	%	70-135	07.02.2020 18:29	

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Certificate of Analytical Results 666199

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	07.02.2020 09:20
Lab Sample Id:	666199-001	Date Collected:	07.02.2020 08:30	Sample Depth:	1 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.02.2020 13:09	Basis:	Wet Weight
Seq Number:	3130687				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0101	0.0101	mg/kg	07.02.2020 18:43	U	1
Toluene	108-88-3	<0.0101	0.0101	mg/kg	07.02.2020 18:43	U	1
Ethylbenzene	100-41-4	<0.0101	0.0101	mg/kg	07.02.2020 18:43	U	1
m,p-Xylenes	179601-23-1	<0.0202	0.0202	mg/kg	07.02.2020 18:43	U	1
o-Xylene	95-47-6	<0.0101	0.0101	mg/kg	07.02.2020 18:43	U	1
Total Xylenes	1330-20-7	<0.0101	0.0101	mg/kg	07.02.2020 18:43	U	1
Total BTEX		<0.0101	0.0101	mg/kg	07.02.2020 18:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	07.02.2020 18:43	
4-Bromofluorobenzene	460-00-4	102	%	70-130	07.02.2020 18:43	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 666199

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LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130685 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706678-1-BLK — LCS Sample Id: 7706678-1-BKS — LCSD Sample Id: 7706678-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	258	103	266	106	90-110	3	20	mg/kg	07.02.2020 14:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130685 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666198-001 — MS Sample Id: 666198-001 S — MSD Sample Id: 666198-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	174	201	360	93	360	93	90-110	0	20	mg/kg	07.02.2020 15:17	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3130683 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706690-1-BLK — LCS Sample Id: 7706690-1-BKS — LCSD Sample Id: 7706690-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	978	98	999	100	70-135	2	35	mg/kg	07.02.2020 13:27	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1070	107	70-135	1	35	mg/kg	07.02.2020 13:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		116		116		70-135	%	07.02.2020 13:27
o-Terphenyl	77		103		103		70-135	%	07.02.2020 13:27

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3130683 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706690-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.02.2020 13:06	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3130683 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666235-001 — MS Sample Id: 666235-001 S — MSD Sample Id: 666235-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	969	96	992	99	70-135	2	35	mg/kg	07.02.2020 15:04	
Diesel Range Organics (DRO)	<50.3	1010	1060	105	1100	110	70-135	4	35	mg/kg	07.02.2020 15:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		94		70-135	%	07.02.2020 15:04
o-Terphenyl	79		84		70-135	%	07.02.2020 15:04

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 666199

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LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3130687 Matrix: Solid Date Prep: 07.02.2020
MB Sample Id: 7706683-1-BLK LCS Sample Id: 7706683-1-BKS LCSD Sample Id: 7706683-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.108	108	0.105	105	70-130	3	35	mg/kg	07.02.2020 13:32	
Toluene	<0.00200	0.100	0.104	104	0.104	104	70-130	0	35	mg/kg	07.02.2020 13:32	
Ethylbenzene	<0.00200	0.100	0.0990	99	0.101	101	71-129	2	35	mg/kg	07.02.2020 13:32	
m,p-Xylenes	<0.00400	0.200	0.200	100	0.206	103	70-135	3	35	mg/kg	07.02.2020 13:32	
o-Xylene	<0.00200	0.100	0.0992	99	0.102	102	71-133	3	35	mg/kg	07.02.2020 13:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		100		98		70-130	%	07.02.2020 13:32
4-Bromofluorobenzene	95		101		106		70-130	%	07.02.2020 13:32

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3130687 Matrix: Soil Date Prep: 07.02.2020
Parent Sample Id: 666198-001 MS Sample Id: 666198-001 S MSD Sample Id: 666198-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.112	112	0.0984	97	70-130	13	35	mg/kg	07.02.2020 14:15	
Toluene	<0.00200	0.0998	0.109	109	0.0962	95	70-130	12	35	mg/kg	07.02.2020 14:15	
Ethylbenzene	<0.00200	0.0998	0.105	105	0.0919	91	71-129	13	35	mg/kg	07.02.2020 14:15	
m,p-Xylenes	<0.00399	0.200	0.213	107	0.187	93	70-135	13	35	mg/kg	07.02.2020 14:15	
o-Xylene	<0.00200	0.0998	0.104	104	0.0915	91	71-133	13	35	mg/kg	07.02.2020 14:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		100		70-130	%	07.02.2020 14:15
4-Bromofluorobenzene	103		104		70-130	%	07.02.2020 14:15

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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Chain of Custody

Work Order No: 662699

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	012918152	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes / No	Wet Ice:	Yes / No	
Temperature (°C):	2.6/2.4	Thermometer ID	TNM007	
Received Intact:	Yes / No			
Cooler Custody Seals:	Yes / No / N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes / No / N/A	Total Containers:	1	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS19	S	07/02/2020	0830	1'-3'	1	X	X	X	Composite

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 Tl 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 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		7/2/20 09:20	2		
3			4		
5			6		

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 11 of 12

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 07.02.2020 09.20.00 AM

Work Order #: 666199

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Sample received in bulk container.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 07.02.2020

Checklist reviewed by: Jessica Kramer Date: 07.09.2020

Jessica Kramer

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Certificate of Analysis Summary 674596

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin CTB

Project Id: 012918152
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed 10.07.2020 14:50
Report Date: 10.12.2020 11:52
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	674596-001					
	Field Id:	FS19					
	Depth:	1-3 ft					
	Matrix:	SOIL					
	Sampled:	10.07.2020 10:45					
BTEX by EPA 8021B	***Extracted:***	10.09.2020 11:05					
	Analyzed:	10.09.2020 15:00					
	Units/RL:	mg/kg RL					
Benzene		<0.00198 0.00198					
Toluene		<0.00198 0.00198					
Ethylbenzene		<0.00198 0.00198					
m,p-Xylenes		<0.00397 0.00397					
o-Xylene		<0.00198 0.00198					
Total Xylenes		<0.00198 0.00198					
Total BTEX		<0.00198 0.00198					
Chloride by EPA 300	***Extracted:***	10.08.2020 16:45					
	Analyzed:	10.09.2020 05:56					
	Units/RL:	mg/kg RL					
Chloride		516 49.8					
TPH by SW8015 Mod	***Extracted:***	10.08.2020 16:30					
	Analyzed:	10.09.2020 04:43					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<250 250					
Diesel Range Organics (DRO)		1280 250					
Motor Oil Range Hydrocarbons (MRO)		273 250					
Total GRO-DRO		1280 250					
Total TPH		1550 250					

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 674596

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin CTB

012918152

10.12.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.12.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **674596**
Remuda Basin CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674596. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674596 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 674596

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS19	S	10.07.2020 10:45	1 - 3 ft	674596-001

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin CTB

Project ID: *012918152*
Work Order Number(s): *674596*

Report Date: *10.12.2020*
Date Received: *10.07.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 674596

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	10.07.2020 14:50
Lab Sample Id:	674596-001	Date Collected:	10.07.2020 10:45	Sample Depth:	1 - 3 ft

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB

Analyst: MAB — Date Prep: 10.08.2020 16:45 — % Moisture:

Seq Number: 3139233 — Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**516**	49.8	mg/kg	10.09.2020 05:56		5

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DTH

Analyst: DTH — Date Prep: 10.08.2020 16:30 — % Moisture:

Seq Number: 3139215 — Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	10.09.2020 04:43	U	5
Diesel Range Organics (DRO)	C10C28DRO	**1280**	250	mg/kg	10.09.2020 04:43		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**273**	250	mg/kg	10.09.2020 04:43		5
Total GRO-DRO	PHC628	**1280**	250	mg/kg	10.09.2020 04:43		5
Total TPH	PHC635	**1550**	250	mg/kg	10.09.2020 04:43		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	10.09.2020 04:43	
o-Terphenyl	84-15-1	120	%	70-135	10.09.2020 04:43	

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Certificate of Analytical Results 674596

LT Environmental, Inc., Arvada, CO

Remuda Basin CTB

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	10.07.2020 14:50
Lab Sample Id:	674596-001	Date Collected:	10.07.2020 10:45	Sample Depth:	1 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.09.2020 11:05	% Moisture:	
Seq Number:	3139368			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.09.2020 15:00	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.09.2020 15:00	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.09.2020 15:00	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.09.2020 15:00	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.09.2020 15:00	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.09.2020 15:00	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.09.2020 15:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.09.2020 15:00	
4-Bromofluorobenzene	460-00-4	82	%	70-130	10.09.2020 15:00	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 674596

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139233 — Matrix: Solid — Date Prep: 10.08.2020
MB Sample Id: 7712913-1-BLK — LCS Sample Id: 7712913-1-BKS — LCSD Sample Id: 7712913-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	262	105	263	105	90-110	0	20	mg/kg	10.09.2020 03:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139233 — Matrix: Soil — Date Prep: 10.08.2020
Parent Sample Id: 674634-081 — MS Sample Id: 674634-081 S — MSD Sample Id: 674634-081 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	37.8	199	243	103	241	102	90-110	1	20	mg/kg	10.09.2020 03:50	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139233 — Matrix: Soil — Date Prep: 10.08.2020
Parent Sample Id: 674634-091 — MS Sample Id: 674634-091 S — MSD Sample Id: 674634-091 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5260	201	5460	100	5450	94	90-110	0	20	mg/kg	10.09.2020 05:14	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139215 — Matrix: Solid — Date Prep: 10.08.2020
MB Sample Id: 7712908-1-BLK — LCS Sample Id: 7712908-1-BKS — LCSD Sample Id: 7712908-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	886	89	863	86	70-135	3	35	mg/kg	10.08.2020 20:16	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	972	97	70-135	5	35	mg/kg	10.08.2020 20:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		131		129		70-135	%	10.08.2020 20:16
o-Terphenyl	112		127		118		70-135	%	10.08.2020 20:16

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139215 — Matrix: Solid — Date Prep: 10.08.2020
MB Sample Id: 7712908-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.08.2020 20:56	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 674596

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3139215 Matrix: Soil Date Prep: 10.08.2020
Parent Sample Id: 674634-049 MS Sample Id: 674634-049 S MSD Sample Id: 674634-049 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	874	87	829	83	70-135	5	35	mg/kg	10.08.2020 21:37	
Diesel Range Organics (DRO)	<50.1	1000	1010	101	940	94	70-135	7	35	mg/kg	10.08.2020 21:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	134		130		70-135	%	10.08.2020 21:37
o-Terphenyl	129		122		70-135	%	10.08.2020 21:37

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139368 Matrix: Solid Date Prep: 10.09.2020
MB Sample Id: 7712985-1-BLK LCS Sample Id: 7712985-1-BKS LCSD Sample Id: 7712985-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0971	97	0.105	105	70-130	8	35	mg/kg	10.09.2020 12:34	
Toluene	<0.00200	0.100	0.0930	93	0.102	102	70-130	9	35	mg/kg	10.09.2020 12:34	
Ethylbenzene	<0.00200	0.100	0.0871	87	0.0945	95	71-129	8	35	mg/kg	10.09.2020 12:34	
m,p-Xylenes	<0.00400	0.200	0.175	88	0.191	96	70-135	9	35	mg/kg	10.09.2020 12:34	
o-Xylene	<0.00200	0.100	0.0867	87	0.0937	94	71-133	8	35	mg/kg	10.09.2020 12:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		98		70-130	%	10.09.2020 12:34
4-Bromofluorobenzene	82		86		84		70-130	%	10.09.2020 12:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3139368 Matrix: Soil Date Prep: 10.09.2020
Parent Sample Id: 674596-001 MS Sample Id: 674596-001 S MSD Sample Id: 674596-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.101	101	0.0971	97	70-130	4	35	mg/kg	10.09.2020 13:19	
Toluene	<0.00199	0.0996	0.0901	90	0.0930	93	70-130	3	35	mg/kg	10.09.2020 13:19	
Ethylbenzene	<0.00199	0.0996	0.0738	74	0.0860	86	71-129	15	35	mg/kg	10.09.2020 13:19	
m,p-Xylenes	<0.00398	0.199	0.145	73	0.171	86	70-135	16	35	mg/kg	10.09.2020 13:19	
o-Xylene	<0.00199	0.0996	0.0723	73	0.0844	85	71-133	15	35	mg/kg	10.09.2020 13:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		95		70-130	%	10.09.2020 13:19
4-Bromofluorobenzene	85		81		70-130	%	10.09.2020 13:19

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 6745916

Page 1 of 1

Project Manager:	Jacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	01241852	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.8/1.6	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS19	S	10-07-20	1045	1-3'	1	✓	✓	✓	Composite

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl 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 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
		10.7.20 1450	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 11 of 12

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.07.2020 02.50.00 PM

Work Order #: 674596

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.07.2020

Checklist reviewed by: Jessica Kramer Date: 10.12.2020

Jessica Kramer

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Certificate of Analysis Summary 675438

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basih CTB

Project Id: 012918152
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri 10.16.2020 14:12
Report Date: 10.20.2020 12:20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	675438-001					
	Field Id:	FS17					
	Depth:	0.5-1 ft					
	Matrix:	SOIL					
	Sampled:	10.16.2020 13:00					
BTEX by EPA 8021B	***Extracted:***	10.19.2020 10:37					
	Analyzed:	10.19.2020 15:02					
	Units/RL:	mg/kg	RL				
Benzene		<0.0200	0.0200				
Toluene		<0.0200	0.0200				
Ethylbenzene		<0.0200	0.0200				
m,p-Xylenes		<0.0400	0.0400				
o-Xylene		<0.0200	0.0200				
Total Xylenes		<0.0200	0.0200				
Total BTEX		<0.0200	0.0200				
Chloride by EPA 300	***Extracted:***	10.16.2020 17:02					
	Analyzed:	10.17.2020 03:09					
	Units/RL:	mg/kg	RL				
Chloride		2350	199				
TPH by SW8015 Mod	***Extracted:***	10.16.2020 17:30					
	Analyzed:	10.17.2020 02:14					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<251	251				
Diesel Range Organics (DRO)		8620	251				
Motor Oil Range Hydrocarbons (MRO)		1490	251				
Total GRO-DRO		8620	251				
Total TPH		10100	251				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

Analytical Report 675438

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basih CTB

012918152

10.20.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.20.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **675438**
Remuda Basih CTB
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 675438. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 675438 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 675438

LT Environmental, Inc., Arvada, CO

Remuda Basih CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS17	S	10.16.2020 13:00	0.5 - 1 ft	675438-001

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basih CTB

Project ID: *012918152*
Work Order Number(s): *675438*

Report Date: *10.20.2020*
Date Received: *10.16.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 675438

LT Environmental, Inc., Arvada, CO

Remuda Basih CTB

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	10.16.2020 14:12
Lab Sample Id:	675438-001	Date Collected:	10.16.2020 13:00	Sample Depth:	0.5 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 17:02	% Moisture:	
Seq Number:	3139977			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2350**	199	mg/kg	10.17.2020 03:09		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	10.16.2020 17:30	% Moisture:	
Seq Number:	3139959			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251	mg/kg	10.17.2020 02:14	U	5
Diesel Range Organics (DRO)	C10C28DRO	**8620**	251	mg/kg	10.17.2020 02:14		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**1490**	251	mg/kg	10.17.2020 02:14		5
Total GRO-DRO	PHC628	**8620**	251	mg/kg	10.17.2020 02:14		5
Total TPH	PHC635	**10100**	251	mg/kg	10.17.2020 02:14		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.17.2020 02:14	
o-Terphenyl	84-15-1	105	%	70-135	10.17.2020 02:14	

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Certificate of Analytical Results 675438

LT Environmental, Inc., Arvada, CO

Remuda Basih CTB

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	10.16.2020 14:12
Lab Sample Id:	675438-001	Date Collected:	10.16.2020 13:00	Sample Depth:	0.5 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.19.2020 10:37	% Moisture:	
Seq Number:	3140036			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0200	0.0200	mg/kg	10.19.2020 15:02	U	1
Toluene	108-88-3	<0.0200	0.0200	mg/kg	10.19.2020 15:02	U	1
Ethylbenzene	100-41-4	<0.0200	0.0200	mg/kg	10.19.2020 15:02	U	1
m,p-Xylenes	179601-23-1	<0.0400	0.0400	mg/kg	10.19.2020 15:02	U	1
o-Xylene	95-47-6	<0.0200	0.0200	mg/kg	10.19.2020 15:02	U	1
Total Xylenes	1330-20-7	<0.0200	0.0200	mg/kg	10.19.2020 15:02	U	1
Total BTEX		<0.0200	0.0200	mg/kg	10.19.2020 15:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.19.2020 15:02	
4-Bromofluorobenzene	460-00-4	77	%	70-130	10.19.2020 15:02	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 675438

LT Environmental, Inc.

Remuda Basin CTB

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139977 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713427-1-BLK — LCS Sample Id: 7713427-1-BKS — LCSD Sample Id: 7713427-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	259	104	258	103	90-110	0	20	mg/kg	10.17.2020 00:51	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139977 — Matrix: Soil — Date Prep: 10.16.2020
Parent Sample Id: 675400-001 — MS Sample Id: 675400-001 S — MSD Sample Id: 675400-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	201	101	198	99	90-110	2	20	mg/kg	10.17.2020 01:10	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139977 — Matrix: Soil — Date Prep: 10.16.2020
Parent Sample Id: 675416-003 — MS Sample Id: 675416-003 S — MSD Sample Id: 675416-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16400	200	16600	100	16600	100	90-110	0	20	mg/kg	10.17.2020 02:42	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139959 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713463-1-BLK — LCS Sample Id: 7713463-1-BKS — LCSD Sample Id: 7713463-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	960	96	988	99	70-135	3	35	mg/kg	10.16.2020 10:10	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1070	107	70-135	1	35	mg/kg	10.16.2020 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		118		116		70-135	%	10.16.2020 10:10
o-Terphenyl	100		105		104		70-135	%	10.16.2020 10:10

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139959 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713463-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.16.2020 09:50	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 675438

LT Environmental, Inc.

Remuda Basih CTB

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139959 — Matrix: Soil — Date Prep: 10.16.2020
Parent Sample Id: 675356-009 — MS Sample Id: 675356-009 S — MSD Sample Id: 675356-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1080	108	1050	105	70-135	3	35	mg/kg	10.16.2020 19:04	
Diesel Range Organics (DRO)	<49.9	998	1180	118	1140	114	70-135	3	35	mg/kg	10.16.2020 19:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	133		130		70-135	%	10.16.2020 19:04
o-Terphenyl	114		114		70-135	%	10.16.2020 19:04

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3140036 — Matrix: Solid — Date Prep: 10.19.2020
MB Sample Id: 7713513-1-BLK — LCS Sample Id: 7713513-1-BKS — LCSD Sample Id: 7713513-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.107	107	70-130	2	35	mg/kg	10.19.2020 11:06	
Toluene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	10.19.2020 11:06	
Ethylbenzene	<0.00200	0.100	0.0951	95	0.0966	97	71-129	2	35	mg/kg	10.19.2020 11:06	
m,p-Xylenes	<0.00400	0.200	0.191	96	0.195	98	70-135	2	35	mg/kg	10.19.2020 11:06	
o-Xylene	<0.00200	0.100	0.0930	93	0.0947	95	71-133	2	35	mg/kg	10.19.2020 11:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		99		70-130	%	10.19.2020 11:06
4-Bromofluorobenzene	86		87		85		70-130	%	10.19.2020 11:06

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3140036 — Matrix: Soil — Date Prep: 10.19.2020
Parent Sample Id: 675472-001 — MS Sample Id: 675472-001 S — MSD Sample Id: 675472-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.127	126	0.128	128	70-130	1	35	mg/kg	10.19.2020 12:14	
Toluene	<0.00201	0.101	0.131	130	0.123	123	70-130	6	35	mg/kg	10.19.2020 12:14	
Ethylbenzene	<0.00201	0.101	0.122	121	0.118	118	71-129	3	35	mg/kg	10.19.2020 12:14	
m,p-Xylenes	<0.00402	0.201	0.247	123	0.242	121	70-135	2	35	mg/kg	10.19.2020 12:14	
o-Xylene	<0.00201	0.101	0.119	118	0.114	114	71-133	4	35	mg/kg	10.19.2020 12:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		95		70-130	%	10.19.2020 12:14
4-Bromofluorobenzene	86		82		70-130	%	10.19.2020 12:14

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Page 722 of 758

Chain of Custody

Work Order No: 675438

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 701-2610	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	01291 8152	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	4.6/4.4	Thermometer ID	
Received Intact:	Yes No	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
FS17	S	10/16/2020	1300	0.5-1'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

composite

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 Tl 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 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			10.16.20 1412	2		
3				4		
5				6		

Received by OCD: 12/7/2025 10:49:05 AM
Final 1.000
Page 11 of 12
Released to Imaging: 2/10/2026 2:25:28 PM

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.16.2020 02.12.00 PM

Work Order #: 675438

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.16.2020

Checklist reviewed by: Jessica Kramer Date: 10.19.2020

Jessica Kramer

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Certificate of Analysis Summary 679071

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin C7B

Project Id: 012918152
Contact: Tacoma Morrissey
Project Location:

Date Received in Lab: Wed 11.25.2020 12:01
Report Date: 12.01.2020 13:18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	679071-001				679071-002							
	Field Id:	FS13A				FS17A							
	Depth:	1.5- ft				1- ft							
	Matrix:	SOIL				SOIL							
	Sampled:	11.25.2020 09:30				11.25.2020 10:34							
Chloride by EPA 300	***Extracted:***	11.25.2020 14:00				11.25.2020 14:00							
	Analyzed:	11.25.2020 19:18				11.25.2020 19:23							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Chloride		49.2	9.98			8070	198						
TPH by SW8015 Mod	***Extracted:***	11.30.2020 17:00				11.30.2020 17:00							
	Analyzed:	12.01.2020 04:08				12.01.2020 04:29							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2			<50.1	50.1						
Diesel Range Organics (DRO)		<50.2	50.2			708	50.1						
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2			172	50.1						
Total GRO-DRO		<50.20	50.20			708.0	50.10						
Total TPH		<50.20	50.20			880.0	50.10						

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 679071

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin C7B

Project Id: 012918152
Contact: Tacoma Morrissey
Project Location:

Date Received in Lab: Wed 11.25.2020 12:01
Report Date: 12.01.2020 13:18
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	679071-001	679071-002				
	Field Id:	FS13A	FS17A				
	Depth:	1.5- ft	1- ft				
	Matrix:	SOIL	SOIL				
	Sampled:	11.25.2020 09:30	11.25.2020 10:34				
BTEX by EPA 8021B	***Extracted:***	11.25.2020 14:19	11.25.2020 14:19				
	Analyzed:	11.26.2020 05:43	11.26.2020 06:06				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00199 0.00199				
Toluene		<0.00200 0.00200	<0.00199 0.00199				
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199				
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398				
o-Xylene		<0.00200 0.00200	<0.00199 0.00199				
Total Xylenes		<0.002000 0.002000	<0.001990 0.001990				
Total BTEX		<0.002000 0.002000	<0.001990 0.001990				

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 679071

for

LT Environmental, Inc.

Project Manager: Tacoma Morrissey

Remuda Basin C7B

012918152

12.01.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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12.01.2020

Project Manager: **Tacoma Morrissey**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **679071**
Remuda Basin C7B
Project Address:

Tacoma Morrissey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679071. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 679071 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 679071

LT Environmental, Inc., Arvada, CO

Remuda Basin C7B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS13A	S	11.25.2020 09:30	1.5 ft	679071-001
FS17A	S	11.25.2020 10:34	1 ft	679071-002

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin C7B

Project ID: *012918152*
Work Order Number(s): *679071*

Report Date: *12.01.2020*
Date Received: *11.25.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 679071

LT Environmental, Inc., Arvada, CO

Remuda Basin C7B

Sample Id:	**FS13A**	Matrix:	Soil	Date Received:	11.25.2020 12:01
Lab Sample Id:	679071-001	Date Collected:	11.25.2020 09:30	Sample Depth:	1.5 ft

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB

Analyst: MAB — Date Prep: 11.25.2020 14:00 — % Moisture:

Seq Number: 3143434 — Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**49.2**	9.98	mg/kg	11.30.2020 11:19		1

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: MAB

Analyst: CAC — Date Prep: 11.30.2020 17:00 — % Moisture:

Seq Number: 3143563 — Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.01.2020 04:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.01.2020 04:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.01.2020 04:08	U	1
Total GRO-DRO	PHC628	<50.20	50.20	mg/kg	12.01.2020 04:08	U	1
Total TPH	PHC635	<50.20	50.20	mg/kg	12.01.2020 04:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	12.01.2020 04:08	
o-Terphenyl	84-15-1	108	%	70-135	12.01.2020 04:08	

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Certificate of Analytical Results 679071

LT Environmental, Inc., Arvada, CO

Remuda Basin C7B

Sample Id:	**FS13A**	Matrix:	Soil	Date Received:	11.25.2020 12:01
Lab Sample Id:	679071-001	Date Collected:	11.25.2020 09:30	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.25.2020 14:19	% Moisture:	
Seq Number:	3143421			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.26.2020 05:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.26.2020 05:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.26.2020 05:43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.26.2020 05:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.26.2020 05:43	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.26.2020 05:43	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.26.2020 05:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	11.26.2020 05:43	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.26.2020 05:43	

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Certificate of Analytical Results 679071

LT Environmental, Inc., Arvada, CO

Remuda Basin C7B

Sample Id:	**FS17A**	Matrix:	Soil	Date Received:	11.25.2020 12:01
Lab Sample Id:	679071-002	Date Collected:	11.25.2020 10:34	Sample Depth:	1 ft

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB

Analyst: MAB — Date Prep: 11.25.2020 14:00 — % Moisture: Basis: Wet Weight

Seq Number: 3143434

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8070**	198	mg/kg	11.25.2020 19:23		20

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: MAB

Analyst: CAC — Date Prep: 11.30.2020 17:00 — % Moisture: Basis: Wet Weight

Seq Number: 3143563

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.01.2020 04:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	**708**	50.1	mg/kg	12.01.2020 04:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**172**	50.1	mg/kg	12.01.2020 04:29		1
Total GRO-DRO	PHC628	**708.0**	50.10	mg/kg	12.01.2020 04:29		1
Total TPH	PHC635	**880.0**	50.10	mg/kg	12.01.2020 04:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.01.2020 04:29	
o-Terphenyl	84-15-1	119	%	70-135	12.01.2020 04:29	

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Certificate of Analytical Results 679071

LT Environmental, Inc., Arvada, CO

Remuda Basin C7B

Sample Id:	**FS17A**	Matrix:	Soil	Date Received:	11.25.2020 12:01
Lab Sample Id:	679071-002	Date Collected:	11.25.2020 10:34	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.25.2020 14:19	% Moisture:	
Seq Number:	3143421			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.26.2020 06:06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.26.2020 06:06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.26.2020 06:06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.26.2020 06:06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.26.2020 06:06	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.26.2020 06:06	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.26.2020 06:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.26.2020 06:06	
4-Bromofluorobenzene	460-00-4	86	%	70-130	11.26.2020 06:06	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 679071

LT Environmental, Inc.

Remuda Basin C7B

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143434 — Matrix: Solid — Date Prep: 11.25.2020
MB Sample Id: 7715983-1-BLK — LCS Sample Id: 7715983-1-BKS — LCSD Sample Id: 7715983-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	242	97	240	96	90-110	1	20	mg/kg	11.25.2020 17:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143434 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 679038-029 — MS Sample Id: 679038-029 S — MSD Sample Id: 679038-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	20.8	199	217	99	216	98	90-110	0	20	mg/kg	11.25.2020 17:34	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143434 — Matrix: Soil — Date Prep: 11.25.2020
Parent Sample Id: 679040-001 — MS Sample Id: 679040-001 S — MSD Sample Id: 679040-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	211	200	395	92	397	93	90-110	1	20	mg/kg	11.25.2020 18:47	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143563 — Matrix: Solid — Date Prep: 11.30.2020
MB Sample Id: 7716127-1-BLK — LCS Sample Id: 7716127-1-BKS — LCSD Sample Id: 7716127-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1010	101	70-135	4	35	mg/kg	12.01.2020 02:28	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	1200	120	70-135	4	35	mg/kg	12.01.2020 02:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		113		128		70-135	%	12.01.2020 02:28
o-Terphenyl	110		122		120		70-135	%	12.01.2020 02:28

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143563 — Matrix: Solid — Date Prep: 11.30.2020
MB Sample Id: 7716127-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.01.2020 02:08	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 679071

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Remuda Basin C7B

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3143563 Matrix: Soil Date Prep: 11.30.2020
Parent Sample Id: 679040-003 MS Sample Id: 679040-003 S MSD Sample Id: 679040-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1110	111	1070	106	70-135	4	35	mg/kg	12.01.2020 03:29	
Diesel Range Organics (DRO)	<49.9	997	1080	108	991	98	70-135	9	35	mg/kg	12.01.2020 03:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		103		70-135	%	12.01.2020 03:29
o-Terphenyl	100		108		70-135	%	12.01.2020 03:29

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143421 Matrix: Solid Date Prep: 11.25.2020
MB Sample Id: 7715990-1-BLK LCS Sample Id: 7715990-1-BKS LCSD Sample Id: 7715990-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.109	109	70-130	1	35	mg/kg	11.25.2020 20:02	
Toluene	<0.00200	0.100	0.103	103	0.103	103	70-130	0	35	mg/kg	11.25.2020 20:02	
Ethylbenzene	<0.00200	0.100	0.0942	94	0.0944	94	71-129	0	35	mg/kg	11.25.2020 20:02	
m,p-Xylenes	<0.00400	0.200	0.191	96	0.193	97	70-135	1	35	mg/kg	11.25.2020 20:02	
o-Xylene	<0.00200	0.100	0.0958	96	0.0948	95	71-133	1	35	mg/kg	11.25.2020 20:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		99		70-130	%	11.25.2020 20:02
4-Bromofluorobenzene	90		85		88		70-130	%	11.25.2020 20:02

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143421 Matrix: Soil Date Prep: 11.25.2020
Parent Sample Id: 679038-021 MS Sample Id: 679038-021 S MSD Sample Id: 679038-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.113	114	0.103	103	70-130	9	35	mg/kg	11.25.2020 20:47	
Toluene	<0.00199	0.0994	0.106	107	0.0964	96	70-130	9	35	mg/kg	11.25.2020 20:47	
Ethylbenzene	<0.00199	0.0994	0.0970	98	0.0868	87	71-129	11	35	mg/kg	11.25.2020 20:47	
m,p-Xylenes	<0.00398	0.199	0.197	99	0.175	88	70-135	12	35	mg/kg	11.25.2020 20:47	
o-Xylene	<0.00199	0.0994	0.0979	98	0.0872	87	71-133	12	35	mg/kg	11.25.2020 20:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	11.25.2020 20:47
4-Bromofluorobenzene	88		90		70-130	%	11.25.2020 20:47

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Work Order No: 679071

Page _____ of _____

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178 Email:		tmorrissey@ltenv.com tcasey@ltenv.com kjennings@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin CTB	Turn Around	
Project Number:	02918152	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	8.6 / 0.4	Thermometer ID	
Received Intact:	~~Yes~~ No		T-WM-007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS13A	S	11-25-20	0930	1.5'	1	X	X	X	Discrete
FS17A	S	11-25-20	1034	1'	1	X	X	X	Discrete

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl 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 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
	Cue Cuffs	11.25.20 1201	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/2/2025 10:49:05 AM
Released to Imaging: 2/10/2026 2:25:28 PM
Final 1.000
Page 14 of 15

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11.25.2020 12.01.00 PM

Work Order #: 679071

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

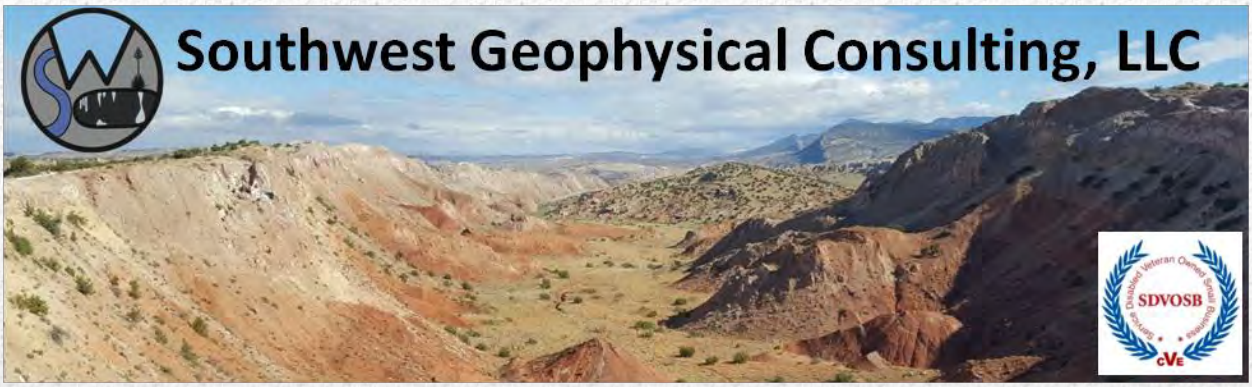
Checklist completed by: Cloe Clifton Date: 11.25.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 11.30.2020

Jessica Kramer

ATTACHMENT 5: CAVE AND KARST INVENTORY REPORT



Cave and Karst Resource Inventory Report
Remuda Basin Central Tank Battery
Eddy County, New Mexico

Prepared for:

LT Environmental, Inc.
3300 North A Street Building 1, Unit 222
Midland, TX 79705

☐ **Positive – HKOZ remediation process required**

☑ **Negative – MKOZ remediation process may be approved by the Oil Conservation Division**

February 10, 2019

LTE-003-20200121

Published by:

Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
(505) 585-2550
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Principal, Chief Executive Officer
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MMXX

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1.0 INTRODUCTION

This report was commissioned by LT Environmental, Inc. (hereinafter referred to as "the client") on January 21, 2020 for the purpose of determining what, if any, karst-related surface features are present near the Remuda Basin Central Tank Battery (hereinafter termed “Remuda”, **Figure 1**) and to provide guidance on the level of remediation required. This study does not include subsurface features, which would require a geophysical survey. The study area that this report covers is in a **HIGH** karst occurrence zone and entirely located within New Mexico State Land Office managed lands (**Figure 2**).

As indicated in section ***1.3 Affected Environment***, the bedrock and overlying soil at the survey site are susceptible to sinkhole development and karst features may be hidden beneath the existing soil stratum. Risk associated with sinkhole formation can be minimized during development with proper foundation design and construction, and the control of site hydrology. The Owner/Developer must recognize, however, that a risk of sinkhole-induced damage to infrastructure does exist. The Owner/Developer must evaluate the risks and attendant costs of performing a geophysical survey prior to development, versus no geophysical survey, and must be willing to accept these risks if it is decided that a surface karst survey is sufficient. Southwest Geophysical Consulting, LLC can provide a geophysical survey. If the decision is made to conduct a geophysical survey, a cost estimate and timeline will be provided upon request.

1.1 Goals of this Study

To provide the client with the location, description, photos, and boundaries of any surface karst-related features within a 200-meter boundary surrounding the pad on the Remuda project site as provided by the client via e-mail on January 21, 2020.

1.2 Summary of Findings

No surface karst features were located within the pedestrian survey area. However, unknown hidden features may still exist beneath the surface. Caution should be exercised during any remediation efforts.



Figure 1: Karst occurrence overview. Red transparent area is a high karst occurrence zone; blue transparent area is a medium karst occurrence zone. Study area is the red outlined area in the lower-right portion of the image. Background image credit: Google Earth. Image date: November 02, 2017. Datum: WGS-84.

1.3 Affected Environment

The Remuda project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, or high cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers. This project occurs within a **HIGH** karst occurrence zone[1] (HKOZ, **Figure 1**). A high karst occurrence zone is defined as areas in known soluble rock types that contain a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat[2].

An on-site inspection revealed that there are no surface karst features within the pedestrian survey area. However, unknown buried features may exist; therefore, this action is subject to mitigation measures designed to adequately protect known and potential cave/karst resources.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The Remuda project site is located in Eddy County, New Mexico, 31 kilometers (19 miles) southeast of Carlsbad, New Mexico; 6 kilometers (3.7 miles) south of the junction of NM128 (Jal Highway) with Rawhide Road, and 6 kilometers (3.7 miles) to the east of Nash Draw (**Figure 1** and **Figure 2**). The site is located within section 19 of NM T23S R30E. This area is within the Chihuahuan Desert Thornscrub defined by the Southwestern Regional ReGAP Vegetation map[5] and the vegetation consists mostly of areas of grass, sparse creosote, and sparse yucca with very good visibility in most locations. See section ***2.3 Local Geology*** for the geology of the area. The pad and surrounding survey boundary are entirely within a high karst occurrence zone (**Figure 1**) and are located entirely within New Mexico State Land Office managed lands (**Figure 2**).

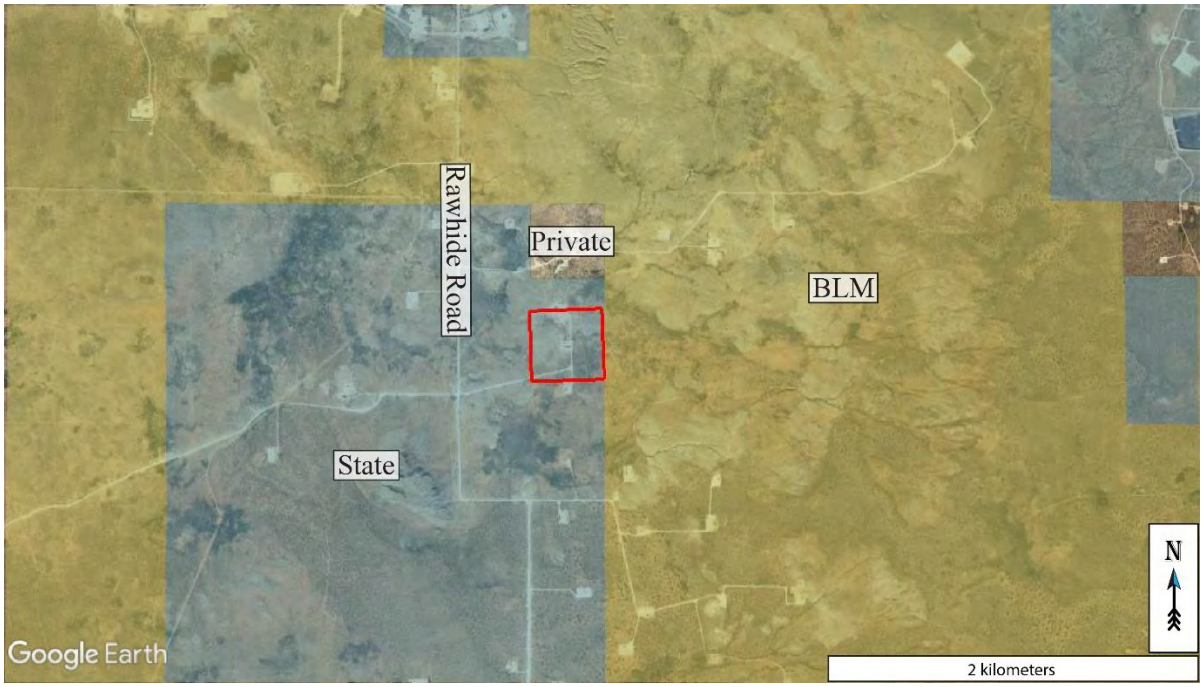


Figure 2: Land ownership overview. Yellow transparent area: BLM-CFO managed land. Blue transparent area: New Mexico State Land Office managed land. No color: Private land. Background image credit: Google Earth. Image date: November 02, 2017. Datum: WGS-84.

2.2 Description of Survey

For this survey 10 lines were walked in a raster pattern at 50-meter (165 feet) intervals in the designated area, providing 90 to 100% coverage for features greater than 50 centimeters (20 inches) in diameter (**Table 1**).

The survey was completed by Garrett Jorgensen on January 30, 2020. The total distance walked was 4.5 kilometers (2.8 miles) and the total area covered was 0.2 square kilometers (39.5 acres).

Table 1: Survey Track Data Files.

File Name	Surveyor	Date	Length (km/miles)	Area (km^2/Ac)
RMDSRV_D1S1.kmz	Jorgensen	01/30/2020	4.51/2.80	0.16/39.5



Figure 3: Survey overview. Light blue wavy lines are the actual survey lines walked. Yellow polygon is the pad site. Red polygon is the 200-meter buffer study area. Background image credit: Google Earth. Image date: November 02, 2017. Datum: WGS-84.

2.3 Local Geology

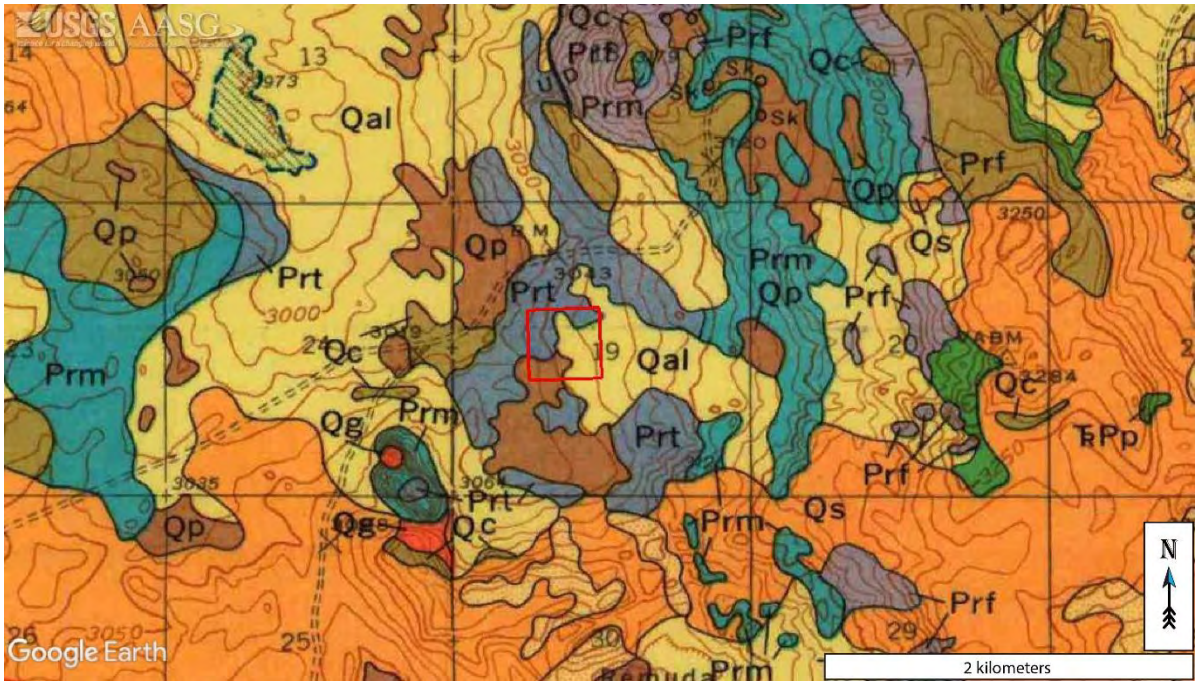


Figure 4: Geology overview. Red polygon highlights the survey area. Geologic Members of the Permian Rustler Formation: Prc - Culebra Dolomite Member, Prt - Tamarisk Member, Prm - Magenta Member, Prf - Forty-Niner Member. TRPp: Dewey Lake Formation (referred to by the name "Pierce Canyon Formation" in the geologic map and associated report. Please note the Pierce Canyon Formation has since been combined with the Dewey Lake Formation and classified as a single unit under the latter name). Qg: Quaternary Gatuna Formation. Qc: Quaternary caliche. Qal: Quaternary alluvium. Qp: Quaternary lacustrine and playa lake deposits. Qs: Quaternary sand. Qsd: Quaternary sand dune deposits. Map credit: Surface geology of the Nash Draw Quadrangle, Eddy County, New Mexico, scale: 1:62,500 (1963), and Google Earth. Image date: November 02, 2017. Datum: WGS-84.

The area surveyed for the Remuda project is located 6 kilometers west of a large, partially closed karst depression known as Nash Draw[6] at an elevation of 930 meters (3,050 feet), plus or minus 4 meters (12 feet), within an area underlain by the Permian Rustler Formation. The area is mantled by thin gypsiferous and calcareous soils (Qc) and quaternary alluvial sands (Qs and Qsd) between 0 and 5 meters in depth which, in turn, overlie the Quaternary Gatuna Formation (Qg), Dewey Lake Formation (TRPp), and then the Rustler Formation[6] (**Figure 4**). The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum[4], and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members). The Rustler overlies the Permian Salado Formation (Psl, not shown), a layer of extremely soluble halite, which can easily be dissolved to create caves, sinkholes, and other karst features[3]. The Rustler may be subject to collapse if a void has developed beneath it in the Salado Formation[4]. The two geologic maps that cover the survey area are the Geologic Atlas of Texas - Hobbs Sheet

(1976) at 1:250,000 scale, and the Surface Geology of Nash Draw Quadrangle, Eddy County, New Mexico (1963) at 1:62,500 scale.

2.4 Description of Karst Features

No surface karst features were located within the 200-meter boundary of the pedestrian survey area for the Remuda project.

3.0 RECOMMENDATIONS

No surface karst features were located during this survey. Based on the above findings, allowing use of medium karst occurrence zone spill remediation procedures may be considered by the Oil Conservation Division within the 200-meter survey area. Confirmation to use a lower remediation level should be received from the Oil Conservation Division before proceeding.

Vigilance during remediation is paramount. If voids are encountered during trenching or digging contact the New Mexico State Oil Conservation Division if on State land, and the Bureau of Land Management – Carlsbad Field Office at (575) 234-5972 if on BLM land and request an onsite investigation from a karst expert. A karst consultant can generally be onsite in Eddy County within five hours.

4.0 REFERENCES

1. Rybacki, K., *Karst Potential Map.* CFO Basemap, 2019.
2. Scholle, P.A., *Geologic Map of New Mexico.* 2003. (1:500,000).
3. Johnson, K.S., *Evaporite Karst in the United States.* Carbonates and Evaporites, 1997. **12(1)**: p. 2-14.
4. Martinez, J.D., K.S. Johnson, and J.T. Neal, *Sinkholes in Evaporite Rocks.* American Scientist, 1998. **86(1-2)**: p. 38-51.
5. Whitehead, W. and C. Flynn, *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology.* 2017, Carlsbad, NM: Bureau of Land Management, Carlsbad Field Office.
6. Vine, J.D., Surface *Geology of Nash Draw Quadrangle Eddy County New Mexico,* 1963.

5.0 GLOSSARY OF TERMS

BLM	Bureau of Land Management
CFO	Carlsbad Field Office
cave	A natural opening at the surface, large enough for a person to enter.
GPS	Global Positioning System
NMSLO	New Mexico State Land Office
playa lake	A natural depression on the surface that collects rainwater. Some contain swallets and/or caves, others do not.
pseudokarst	Karst-like terrain that forms through processes other than dissolution.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
WGS	World Geodetic System

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Santa Fe, NM 87505

QUESTIONS

Action 530950

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 530950
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nJMW1303140115**
Incident Name	**NJMW1303140115 REMUDA BASIN BATTERY @ FAPP2126043119**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2126043119] Remuda Basin CTL Battery**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	REMUDA BASIN BATTERY
Date Release Discovered	08/30/2010
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error | Truck | Crude Oil | Released: 53 BBL | Recovered: 46 BBL | Lost: 7 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	5380
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/02/2025

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QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 100 and 200 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1040
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5752
GRO+DRO (EPA SW-846 Method 8015M)	4858
BTEX (EPA SW-846 Method 8021B or 8260B)	3.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/30/2010
On what date will (or did) the final sampling or liner inspection occur	08/25/2025
On what date will (or was) the remediation complete(d)	08/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	13351
What is the estimated volume (in cubic yards) that will be reclaimed	1960
What is the estimated surface area (in square feet) that will be remediated	13351
What is the estimated volume (in cubic yards) that will be remediated	1960
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/02/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

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

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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**497653**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**08/27/2025**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**1000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	13351
What was the total volume (in cubic yards) reclaimed	1960
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site to address the impacted soil resulting from the August 30, 2010, crude oil release and August 21, 2018, crude oil and produced water release. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extents, indicated all COC concentrations were compliant with the Closure Criteria and reclamation requirements, where applicable. Based on the soil sample analytical results, no further remediation is required.
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.	

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/02/2025

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QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/10/2026