LT Environmental, Inc.
3300 North "A" Street
Building 1, Unit 103
Midland, Texas 79705
432.704.5178

May 13, 2020

Mr. Bradford Billings
New Mexico Oil Conservation Division
1220 South St. Francis Drive, #3
Santa Fe, New Mexico 87505

RE: Variance with Closure and Deferral Request
Indian Flats Bass Federal
Remediation Permit Numbers 2RP-3127, 2RP-3129, 2RP-3208, 2RP-3212, 2RP-3260 and 2RP-3703
Eddy County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure and Deferral Request detailing site assessment, soil sampling, and excavation activities at the Indian Flats Bass Federal (Site) located in Unit J, Section 35, Township 21 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following six separate produced water and crude oil release events at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this Closure and Deferral Request, describing remediation that has occurred and requesting No Further Action (NFA) for Remediation Permit (RP) Number 2RP-3127 and deferral for RP Numbers 2RP-3129, 2RP-3208, 2RP-3212, 2RP-3260, and 2RP-3703 until the Site is reconstructed, and/or the well pad is abandoned. In support of the closure and deferral requests, XTO requests a variance to the application of Table 1, *Closure Criteria for Soils Impacted by a Release*, of 19.15.29.12 of the New Mexico Administrative Code (NMAC) for soils deeper than 4 feet below ground surface (bgs).

The six releases are included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the NMAC as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing.

RELEASE BACKGROUND

On July 4, 2015, a poly line rupture caused the release of approximately 0.25 barrels (bbls) of crude oil and 5 bbls of produced water. The well was shut in until the line could be repaired. The

release impacted approximately 525 square feet of pasture west of the well pad. No oil or produced water was recovered. The former operator reported the release to NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on July 4, 2015 and was assigned RP Number 2RP-3127 (Attachment 1).

On July 13, 2015, a surface steel water line developed a pinhole due to corrosion. Approximately 13 bbls of produced water were released. The release affected approximately 334 square feet of caliche pad. Approximately 1 bbl of produced water was recovered. The previous operator reported the release to NMOCD on a Form C-141 on July 13, 2015 and was assigned RP Number 2RP-3129 (Attachment 1).

On August 8, 2015, a fitting on the saltwater disposal (SWD) pump failed, causing approximately 145 bbls of produced water to be released. The release affected approximately 2,250 square feet of caliche pad. Approximately 85 bbls of produced water were recovered. The previous operator reported the release to NMOCD on a Form C-141 on August 8, 2015 and was assigned RP Number 2RP-3208 (Attachment 1).

On August 13, 2015, a fitting on the SWD pump failed, causing approximately 8 bbls of produced water to be released. The release affected approximately 3,058 square feet of caliche pad. Approximately 1 bbl of produced water was recovered. The previous operator reported the release to NMOCD on a Form C-141 on August 13, 2015 and was assigned RP Number 2RP-3212 (Attachment 1).

On September 3, 2015, a fitting failed on the line connected from the heater treater to the produced water tanks. Approximately 7 bbls of produced water were released. The release affected approximately 650 square feet of caliche pad. Approximately 2 bbls of produced water were recovered. The previous operator reported the release to NMOCD on a Form C-141 on September 3, 2015 and was assigned RP Number 2RP-3260 (Attachment 1).

On May 7, 2016, a leak developed on a steel water dump line associated the heater treater due to internal corrosion. Approximately 6.5 bbls of produced water were released. The release affected approximately 396 square feet of caliche pad. Approximately 5 bbls of produced water were recovered. The previous operator reported the release to NMOCD on a Form C-141 on May 7, 2016 and was assigned RP Number 2RP-3703 (Attachment 1).

Although these releases occurred while the facility was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. Since the six releases occurred in the same general area of the Site, excavation and sampling activities were completed to address all six releases simultaneously.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of 19.15.29.12 NMAC. Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is United States Geological Survey (USGS) well 322547104035001, located approximately 2,577 feet southwest of the Site. The water well has a depth to groundwater of 128 feet below ground surface (bgs) and an undetermined total depth. Ground surface elevation at the water well location is approximately 3,162 feet above mean sea level (AMSL), which is approximately 21 feet lower in elevation than the Site. USGS well 322547104035001 and New Mexico Office of the State Engineer (NMOSE) well 00516 are located 2,577 feet and 22,312 feet southwest and northeast of the Site, respectively, and indicate depth to groundwater is also greater than 100 feet bgs. Based on the wells near the Site, there is a regional trend indicating depth to groundwater is greater than 100 feet bgs. All wells used in determining depth to groundwater are depicted on Figure 1.

In 2013, the previous operator drilled monitoring wells to determine depth to groundwater to address historical releases. The deepest monitoring well was drilled to 110 feet bgs. and no water was identified. The monitoring wells were plugged and abandoned and are therefore not sensitive receptors. The locations of the monitoring wells are depicted on Figure 1 (CP 01171 and CP 01118).

The closest continuously flowing water or significant watercourse to the Site is Old Indian Draw depicted as flowing directly through the Site. LTE previously conducted a desktop assessment using available internet databases, including the National Hydrography Dataset from USGS and streams and waterways identified by NMOSE. Both databases identify a watercourse near the release footprints. Closer inspection of high-resolution aerial photographs raised questions regarding the characteristics of the watercourse, as only disconnected drainage patterns (appearing as shallow ruts) were evident.

LTE conducted additional assessment activities to compare the features identified in the aerial imagery to the definition of “significant watercourse” per Subsection P of 19.15.17.7 NMAC. Specifically, the definition in Subsection P of 19.15.17.7 NMAC requires a defined bed and bank and either named or identified by a dashed blue line on USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse. The watercourse identified by the National Hydrography Dataset and NMOSE is Old Indian Draw, but is not depicted as a dashed blue line on a USGS 7.5-minute quadrangle map. The watercourse is depicted as a dashed black line. The watercourse is not a tributary to a dashed blue line on the USGS 7.5-minute quadrangle map; however, it is shown as a tributary to another solid black line.

On February 28, 2020, LTE conducted a visual field survey of the watercourse to ground truth its location and photo-document presence or absence of a bed and bank (Attachment 3). The actual

location of the watercourse did not correlate to the mapped line identified by NMOSE and National Hydrography Dataset. LTE was unable to identify any feature with a bed and bank within 300 feet of the release footprint (Attachment 3). The features identified in aerial photographs appeared as erosional ruts and swales aligned with the topographic gradient toward the south-southwest. There was no evidence of fluvial deposition inside the erosional features, and they did not connect to other watercourses, instead splaying out onto the desert floor. Based on the observations presented, there does not appear to be any significant watercourses located within 300 feet of the Site.

The Site is located within a Flood Zone A designation as determined by the Federal Emergency Management Agency's (FEMA's) Nation Flood Hazard Layer (NFHL) Viewer. According to FEMA, the Site is located within an area with a 1 percent (%) annual chance for flood hazard. While this Site is in a 1% annual chance for flooding, evidence of flooding at and around the Site, such as high-water marks on equipment, heavy erosional paths, or standing water at various times throughout the year, have not been observed since conducting field activities in 2017.

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. The Site is located in a medium-potential karst area.

VARIANCE REQUEST FOR CLOSURE CRITERIA

Two sensitive receptors were identified during the desktop Site Characterization: a potential significant watercourse within 300 feet of the Site and a flood hazard designation; however, based on field reconnaissance of these two sensitive receptors, LTE determined there was no significant watercourse on or within 300 feet of the Site as defined by Subsection P of 19.15.17.7 NMAC. Additionally, LTE observed no indicators of a flood impact at the Site in at least the past 3 years. If there were a significant watercourse near the Site and/or if there was a flood event, impacts in the top 4 feet of soil would generally affect downgradient receptors since the significant watercourse would be a losing stream and flooding would sheet topographically downgradient (northeast to southwest).

As such, the following NMOCD Table 1 Closure Criteria (Closure Criteria) was applied to the top 4 feet to be protective of human health, the environment, and groundwater:

- 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

Additionally, the reclamation of any affected area off the well pad must be comprised of non-waste containing earthen material exhibiting chloride concentrations below 600 mg/kg, which was applied per NMAC 19.15.29.13.D (1) to the top 4 feet.

XTO proposes a variance to application of Closure Criteria in the material below 4 feet bgs. The proposal remains equally protective of human health, the environment, and groundwater. Groundwater is deep at the Site, as documented by nearby monitoring wells that were dry. Any potential impact to surface receptors was addressed by application of the strictest standards in shallow soils as described above. However, XTO applied the following Closure Criteria below 4 feet, which normally applies when depth to groundwater is greater than 100 feet bgs and the other potential receptors are absent, which is effectively the site setting based on actual field observations:

- Benzene: 10 mg/kg
- BTEX: 50 mg/kg
- TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

The six releases occurred on and around the Site's well pad; therefore, site assessment and soil sampling activities were completed to address all six releases simultaneously; however, due to duplicative sample nomenclature the below site assessment and soil sampling summaries and tables are separated by RP Number.

Historical records revealed that in 2014, a twenty (20) mil polyurethane liner was installed by Basin Environmental Services, LLC at approximately four feet bgs from separate remediation efforts for RP Number 2RP-2198. Soil assessed and removed from the area was limited to one foot above the liner to protect the liner from damage. The extent of the liner is represented on Figure 2.

Field Screening and Observations Procedures

LTE staff screened all soil samples for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The PID was calibrated with a 100-parts per million (ppm) by volume isobutylene.

Observations of petroleum hydrocarbon and/or salt staining and petroleum hydrocarbon odors were recorded for each screened soil sample and documented in field notes and lithologic/soil

boring logs. Copies of the lithologic/soil sampling logs are included in Attachment 2. Soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit. Photographic documentation was conducted during assessment activities. A photographic log is included in Attachment 3.

Soil Sampling and Analysis Procedures

Preliminary and delineation soil samples were collected as discrete samples at a single depth within one vertical location. Each sample was placed in two resealable 1-gallon plastic bags; one for field screening and the other for potential laboratory analysis.

Excavation confirmation samples were collected as composite soil samples to represent no more than 200 square feet of area by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing them. The mixture was divided into two bags; one for field screening and the other for potential laboratory analysis.

In some instances, discrete soil samples were collected at depth below an excavation sidewall to determine vertical delineation for potential deferral areas.

All soil samples were placed 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 shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas or Carlsbad, New Mexico, for analysis of 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 EPA Method 300.0.

RP Numbers 2RP-3208 and 2RP-3212

On December 27, 2017, LTE personnel inspected the Site to evaluate the release area associated with RP Numbers 2RP-3208 and 2RP-3212. Ten preliminary soil samples (SS-1 through SS-10) were collected within and around the release area to assess the lateral extent of impacted soil. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and field observations.

On October 18, 2019 and March 23, 2020, LTE personnel returned to the Site to oversee subsurface site assessment activities. Potholes were advanced via track hoe at 10 locations (PH01 through PH10) within and around the release area to assess for the presence or absence of soil impacts associated with the historical release. Potholes PH01 through PH10 were advanced to depths ranging from approximately 1 foot to 4 feet bgs. The pothole delineation soil sample locations are depicted on Figure 3A.

RP Number 2RP-3129

On December 27, 2017, LTE personnel inspected the Site to evaluate the release areas associated with RP Number 2RP-3129. Five preliminary soil samples (SS-1 through SS-5) were collected within and around the presumed release area on the well pad, to assess the lateral extent of impacted soil. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and field observations.

On October 16 and 18, 2019, LTE personnel returned to the Site to oversee subsurface site assessment activities. Potholes and boreholes were advanced via track hoe and stainless-steel hand auger, respectively, at four locations within and around the release area to assess the presence or absence of soil impacts associated with the historical release. Potholes PH01 and PH02 and boreholes BH01 and BH02 were advanced to depths ranging from approximately 1 foot to 4 feet bgs. The pothole and borehole delineation soil sample locations are depicted on Figure 3A.

RP Number 2RP-3260

On December 27, 2017, LTE personnel inspected the Site to evaluate the release areas associated with RP Number 2RP-3260. Six preliminary soil samples (SS-1 through SS-6) were collected within and around the release area on the well pad, to assess the lateral extent of impacted soil. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and field observations.

On October 17 and 18, 2019, LTE personnel returned to the Site to oversee site assessment activities. Potholes and boreholes were advanced via track hoe and a stainless-steel hand auger, respectively, at seven locations within and around the release area to assess the presence or absence of soil impacts associated with the historical release. Potholes PH01 through PH05 and boreholes BH01 and BH02 were advanced to depths ranging from approximately 1 foot to 15 feet bgs. The pothole delineation soil sample locations are depicted on Figures 3A and 3B. Figure 3A presents samples collected in the top 4 feet and Figure 3B presents samples collected below 4 feet in depth.

RP Number 2RP-3703

On January 25, 2018, LTE personnel inspected the Site to evaluate the release area associated with RP Number 2RP-3703. Five preliminary soil samples (SS1 through SS5) were collected within and around the release areas on and off the well pad, to assess the lateral extent of impacted soil. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and field observations.

On October 18, 2019, LTE personnel returned to the Site to oversee site assessment activities. Potholes and boreholes were advanced via track hoe and stainless-steel hand auger, respectively, at four locations within and around the release area to assess the presence or absence of soil impacts associated with the historical release. Potholes PH01 and PH02 and boreholes BH01 and BH02 were advanced to depths ranging from approximately 1 foot to 4 feet bgs. The pothole delineation soil sample locations are depicted on Figure 3A.

RP Number 2RP-3127

On January 25, 2018, LTE personnel inspected the Site to evaluate the release areas associated with RP Number 2RP-3127. Five preliminary soil samples (SS1 through SS5) were collected within and around the release area off the well pad in the pasture, to assess the lateral extent of impacted soil. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and field observations.

On October 16 and 17, 2019, LTE personnel returned to the Site to oversee site assessment activities. Potholes and boreholes were advanced via track hoe and stainless-steel hand auger, respectively, at five locations within and around the release area to assess the presence or absence of soil impacts associated with the historical release. Potholes PH01 through PH04 and borehole BH01 were advanced to depths ranging from approximately 1 foot to 4 feet bgs. The pothole delineation soil sample locations are depicted on Figure 3A.

EXCAVATION SOIL SAMPLING ACTIVITIES

RP Numbers 2RP-3208 and 2RP-3212

During March and April 2020 LTE personnel returned to the Site to oversee excavation of soil as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary and delineation soil samples. Following removal of impacted soil, excavation confirmation samples were collected. Soil samples SW01 through SW20 were collected from the sidewalls of the excavation. Discrete sidewall samples (ex. SW01A, SW01B, and SW01C) were collected to vertically delineate potential deferral areas. Soil samples FS01 through FS45 were collected from the floor of the excavation at depths between approximately 1.5 feet and 8 feet bgs. The historical liner mentioned above was encountered south of production equipment and soil was assessed and remediated to one foot above the liner to preserve the integrity of the liner. Excavation was limited near SS-4, SS-5, and PH04 due to the presence of production equipment and electrical lines. The excavation extent and excavation soil sample locations are depicted on Figure 4A.

The excavation extent measured approximately 9,165 square feet in area. A total of approximately 2,276 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Lea Land landfill facility located in Hobbs, New Mexico.

RP Numbers 2RP-3260 and 2RP-3703

On October 15, 2019, and in February and March 2020, LTE personnel returned to the Site to oversee excavation of soil as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary and delineation soil samples. Following removal of impacted soil, excavation confirmation samples were collected on October 15, 2019, and in February and March 2020. Confirmation soil samples SW01 through SW22 were collected from the sidewalls of the excavation. Soil samples FS01 through FS17 were collected from the floor of the excavation at depths between approximately 2 feet and 11 feet bgs. The excavation extent and excavation soil sample locations are depicted on Figure 4B

The excavation extent measured approximately 4,149 square feet in area. A total of approximately 911 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Lea Land landfill facility located in Hobbs, New Mexico.

RP Number 2RP-3127

On February 28, 2020 LTE personnel returned to the Site to oversee excavation of soil as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples. Following removal of impacted soil, excavation confirmation samples were collected on February 28, 2020. Confirmation soil samples SW01 through SW03 were collected from the sidewalls of the excavation from the ground surface to approximately 4 feet bgs. Confirmation soil samples FS01 through FS03 were collected from the floor of the excavation at a depth of approximately 4 feet bgs. The excavation extent and excavation soil sample locations are depicted on Figure 4A.

The excavation extent measured approximately 594 square feet in area. A total of approximately 225 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Lea Land landfill facility located in Hobbs, New Mexico.

ANALYTICAL RESULTS

RP Numbers 2RP-3208 and 2RP-3212

Laboratory analytical results for preliminary soil samples and delineation soil samples collected for RP Numbers 2RP-3208 and 2RP-3212 indicated soil exceeding NMOCD Closure Criteria for TPH and chloride existed in the affected area. Excavation confirmation sample results indicated impacted soil was excavated to the greatest extent possible; however, impacted soil remained immediately adjacent to active production equipment at the sidewall represented by SW02, SW04, SW05, and the sidewall next to a pipeline represented by SW12 and SW13. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

RP Number 2RP-3129

Laboratory analytical results for preliminary soil samples and delineation soil samples collected for RP Number 2RP-3129 indicated soil exceeding NMOCD Closure Criteria for TPH and chloride existed in the affected area. Excavation was impossible due to the presence of production equipment, electrical lines, and water lines. Impacted soil identified south of the production equipment is underlain by the historical liner. Excavation equipment was unable to access the area between production equipment; therefore, crews removed surface staining utilizing hand shoveling to the greatest extent possible. The area was not resampled, since the existing delineation samples best represent remaining impacts to soil. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4

RP Numbers 2RP-3260 and 2RP-3703

Due to proximity, the impacted areas associated with these RP numbers were treated simultaneously. Preliminary and delineation soil sample results identified concentrations exceeding NMOCD Closure Criteria for chloride and TPH in the top four feet of soil. Those areas were excavated to the greatest extent possible based on existing active infrastructure. Excavation confirmation samples indicated not all impacted soil was removed (SW01, SW02, SW06, SW12, SW13, SW14, SW15, SW22, FS01, and FS04), and this soil was restricted to areas immediately under or adjacent to active production equipment. Soil sampling results are presented on Table 1 and Figure 3B. Laboratory analytical results are summarized in Table 2 and the complete laboratory analytical reports are included as Attachment 4.

RP Number 2RP-3127

Preliminary and delineation soil sampling results indicated soil exceeding NMOCD Closure Criteria for TPH in the affected area. As a result, impacted soil was excavated in the vicinity of

failing soil samples. Laboratory analytical results for composite excavation soil samples indicated all samples were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST – 2RP-3127

Site assessment and excavation activities were conducted at the Site to address six historical releases of produced water. Delineation soil sampling was completed in and around the release extent to define the lateral and vertical extent of impacted soil. Based on the laboratory analytical results for the delineation soil samples, impacted soil was excavated. Laboratory analytical results for excavation soil samples collected from the final excavation extents indicated BTEX, TPH-GRO and TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and the reclamation standard for the top four feet of soil. Based on the excavation and delineation soil sample analytical results, NFA appears warranted. XTO requests NFA for RP Number 2RP-3127. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. An updated NMOCD Form C-141 is included in Attachment 1.

DEFERRAL REQUEST – 2RP-3129, 2RP-3208, 2RP-3212, 2RP-3260, and 2RP-3703

A total of approximately 3,412 cubic yards of impacted soil were excavated from the Site; however, an estimated 1,737 cubic yards of residual impacted soil was left in place for compliance with the XTO safety policy regarding earth moving activities within 2 feet of active production equipment and pipelines. Based on field efforts including mechanical excavation with a track hoe, hydroexcavation where possible, and hand shoveling in the least assessible areas, LTE believes impacted soil was excavated to the maximum extent practicable (MEP). XTO requests deferral of soil remaining in place on the active well pad near production equipment, which would require major facility deconstruction to address. The areas proposed for deferral are included in Figure 5 and are delineated vertically and laterally by excavation and delineation samples. Depths of vertical delineation in each area are shown on Figure 5. Residual soil impacts left in place appears to be equally protective to human health, the environment, and groundwater without impairment while left in place.

XTO backfilled the excavations to reduce safety concerns around the production equipment and requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. XTO requests deferral of final remediation for RP Numbers 2RP-3208, 2RP-3212, 2RP-3260 and 2RP-3703. Updated NMOCD Form C-141s are included as Attachment 1.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Korey Kennedy
Project Environmental Scientist

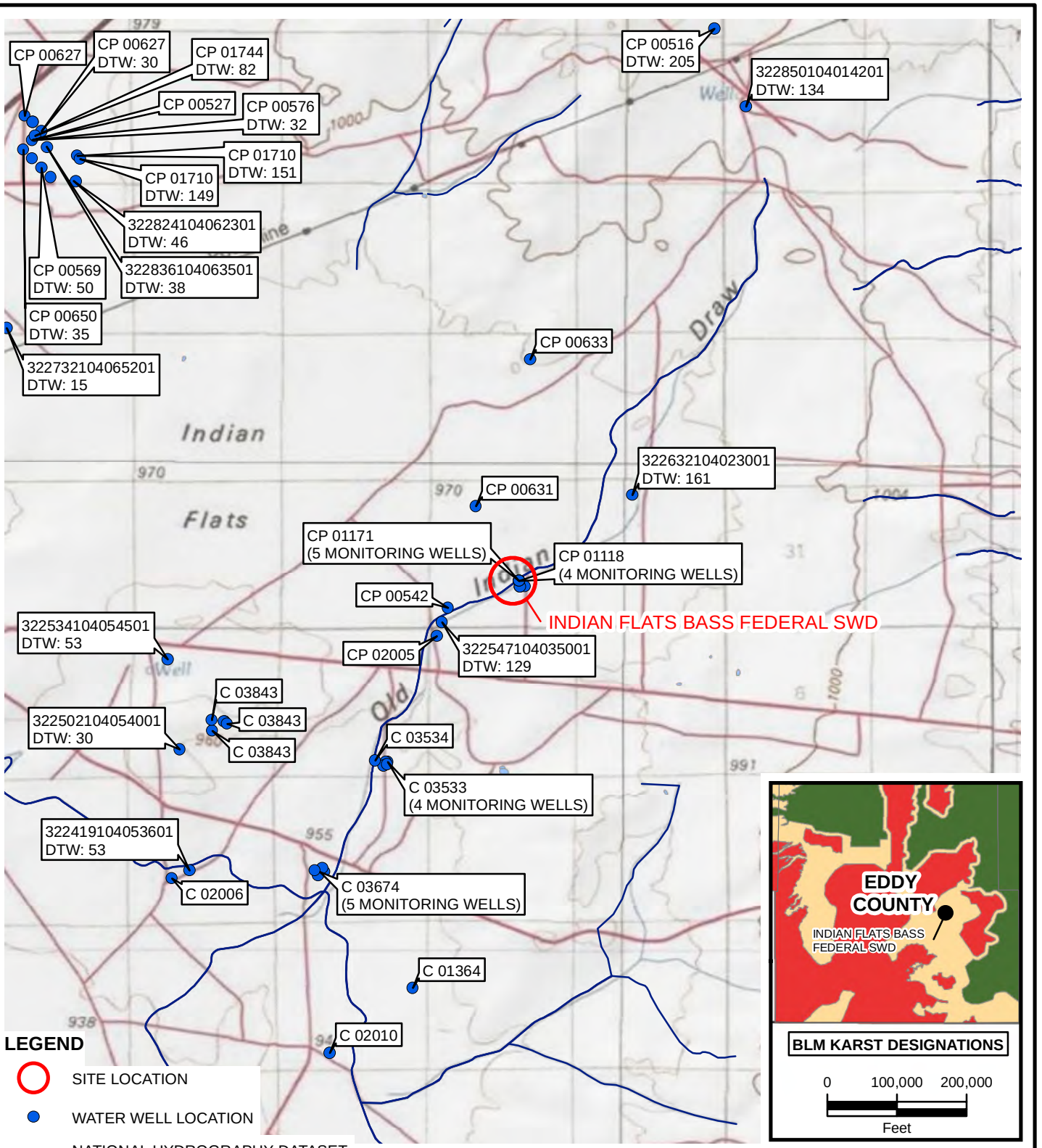
Ashley L. Ager, P.G.
Senior Geologist

cc: Kyle Littrell, XTO
Mike Bratcher, NMOCD
Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3a	Delineation Soil Sample Locations in Top Four Feet
Figure 3b	Preliminary Soil Sample Locations Below Four Feet
Figure 4a	Excavation Soil Sample Locations (2RP-3208 and 2RP-3212)
Figure 4b	Excavation Soil Sample Locations (22RP-3127, 2RP-3260, and 2RP-3703)
Figure 5	Deferral Area Locations
Table 1	Soil Analytical Results
Attachment 1	Initial/Final NMOCD Form C-141 (2RP-3127, 2RP-3129, 2RP-3208, 2RP-3212, 2RP-3260 and 2RP-3703)
Attachment 2	Lithologic / Soil Sample Logs
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports

FIGURES



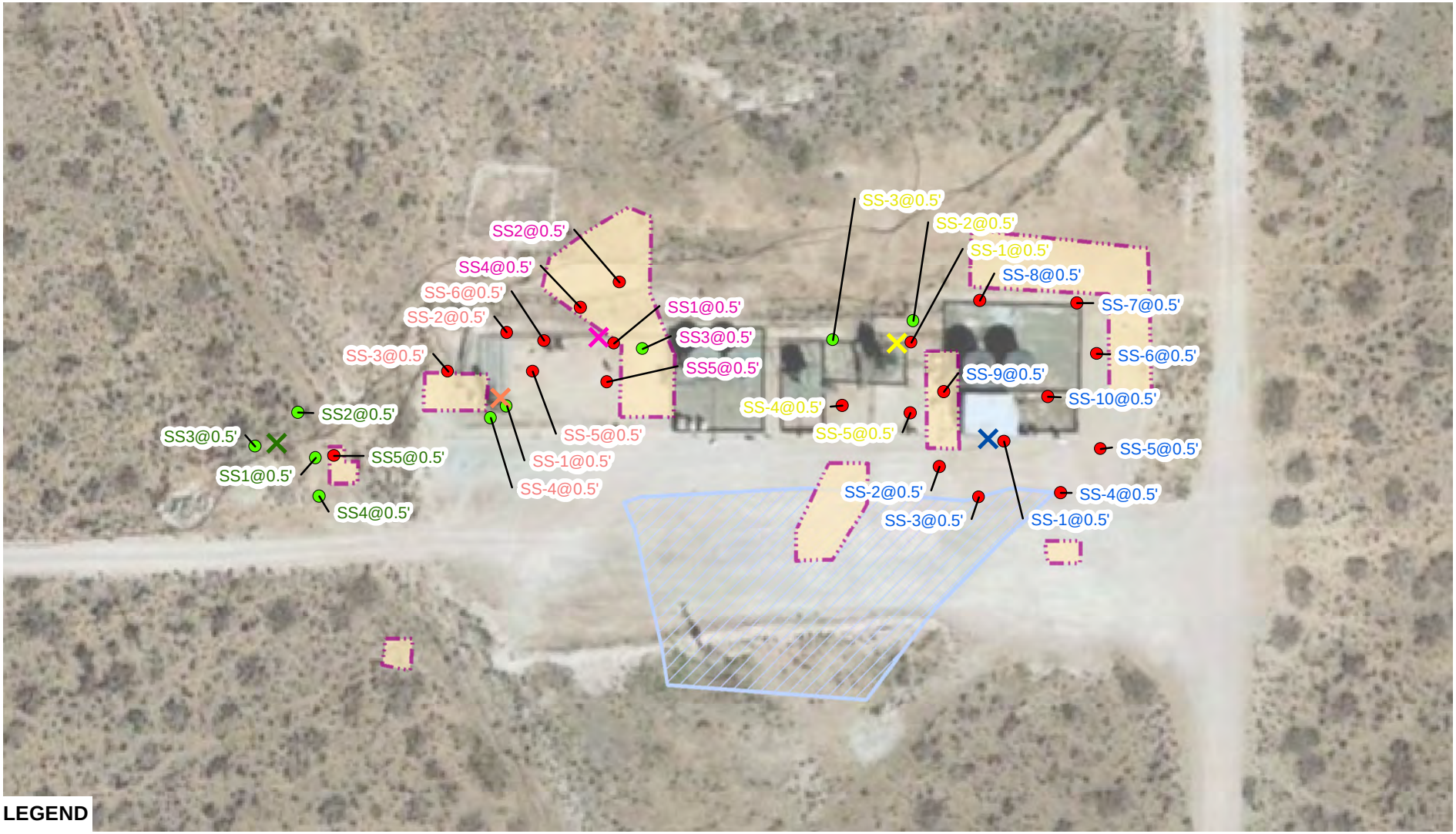
LEGEND

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

NOTE: REMEDIATION PERMIT NUMBER NOT ASSIGNED
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
INDIAN FLATS BASS FEDERAL SWD
UNIT J SEC 35 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917061_INDIAN FLATS BASS FEDERAL SWD\012917061_FIG01_SL_RECEPTOR_2020.mxd



LEGEND

- RELEASE LOCATION (2RP-3127)
- RELEASE LOCATION (2RP-3129)
- RELEASE LOCATION (2RP-3208 & 2RP-3212)
- RELEASE LOCATION (2RP-3260)
- RELEASE LOCATION (2RP-3703)
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT
- LINER EXTENT

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBER 2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208 & 2RP-3212, 2RP-3703

IMAGE COURTESY OF GOOGLE EARTH 2016

0 70 140
Feet

N

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
INDIAN FLATS BASS FEDERAL SWD
UNIT J SEC 35 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917061_INDIAN FLATS BASS FEDERAL SWD\012917061_FIG02_PRELIMINARY_2020.mxd

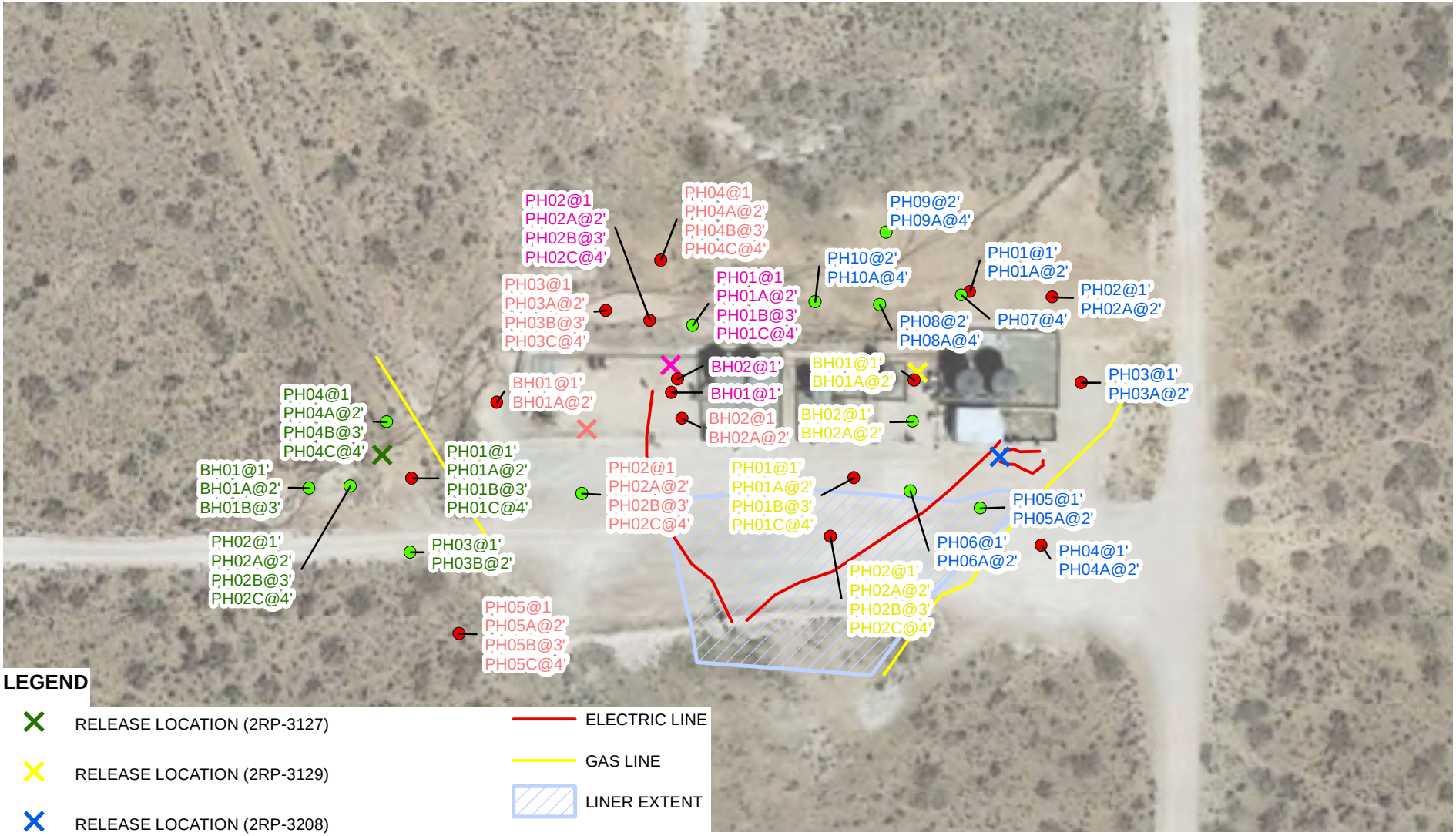


IMAGE COURTESY OF GOOGLE EARTH 2016

LEGEND

- RELEASE LOCATION (2RP-3127)
- RELEASE LOCATION (2RP-3129)
- RELEASE LOCATION (2RP-3208)
- RELEASE LOCATION (2RP-3260)
- RELEASE LOCATION (2RP-3703)
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- LINER EXTENT

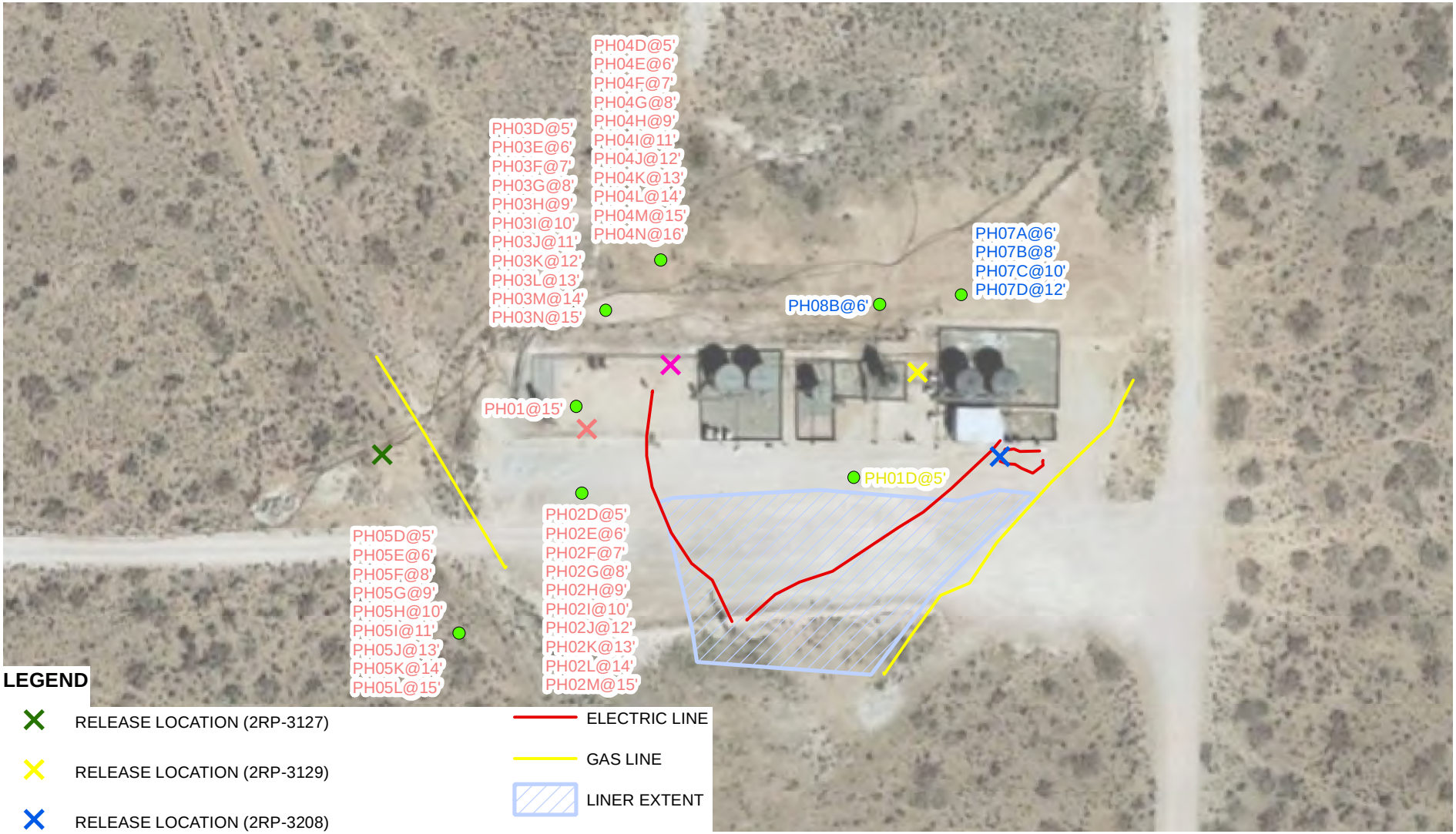
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBER 2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208 & 2RP-3212, 2RP-3703, 2RP-3760

0 80 160
Feet

N

FIGURE 3A
DELINEATION SOIL SAMPLE LOCATIONS IN TOP FOUR FEET
INDIAN FLATS
UNIT J SEC 35 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917061_INDIAN FLATS BASS FEDERAL SWD\012917061_FIG03A_DELINEATION_2020.mxd



LEGEND

- RELEASE LOCATION (2RP-3127)
- RELEASE LOCATION (2RP-3129)
- RELEASE LOCATION (2RP-3208)
- RELEASE LOCATION (2RP-3260)
- RELEASE LOCATION (2RP-3703)
- DELINEATION SOIL SAMPLE WITH CONCENTRAITONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- LINER EXTENT

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBER 2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208 & 2RP-3212, 2RP-3703, 2RP-3760

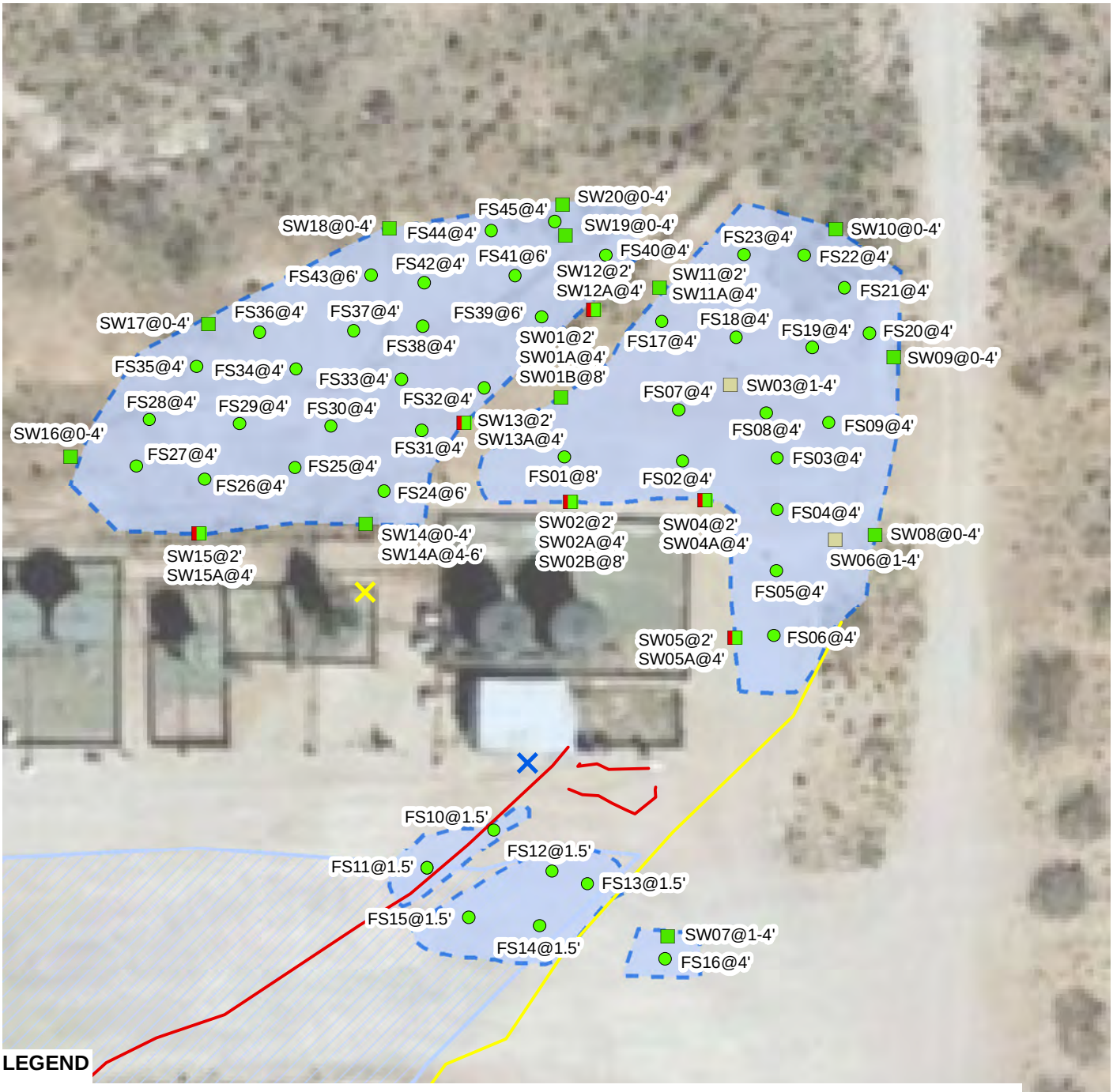
IMAGE COURTESY OF GOOGLE EARTH 2016

0 80 160
Feet

N

FIGURE 3B
DELINEATION SOIL SAMPLE LOCATIONS BELOW FOUR FEET
INDIAN FLATS
UNIT J SEC 35 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917061_INDIAN FLATS BASS FEDERAL SWD\012917061_FIG03B_DELINEATION_2020.mxd



LEGEND

- RELEASE LOCATION (2RP-3129)
- RELEASE LOCATION (2RP-3208 & 2RP-3212)
- EXCAVATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- EXCAVATION EXTENT (2RP-3208 & 2RP-3212)
- LINER EXTENT

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBERS 2RP-3129, 2RP-3208 & 2RP-3212

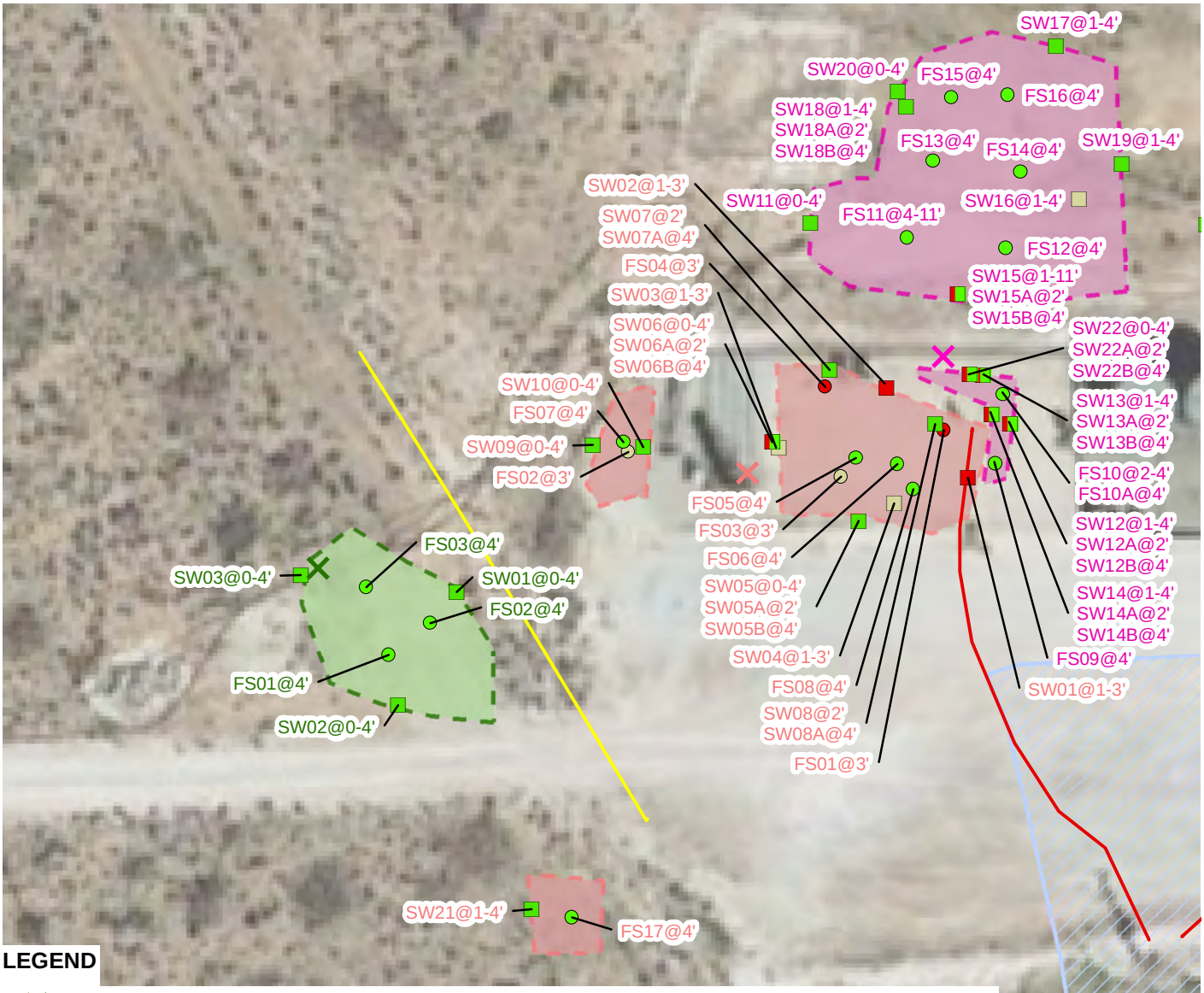
IMAGE COURTESY OF GOOGLE EARTH 2016

0 40 80
Feet

N

FIGURE 4A
EXCAVATION SOIL SAMPLE LOCATIONS
INDIAN FLATS BASS FEDERAL SWD
UNIT J SEC 35 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917061_INDIAN FLATS BASS FEDERAL SWD\012917061_FIG04A_EXCAVATION_ALL_051320_2020.mxd



LEGEND

- RELEASE LOCATION (2RP-3127)
- RELEASE LOCATION (2RP-3260)
- RELEASE LOCATION (2RP-3703)
- SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED
- SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBERS 2RP-3127, 2RP-3260, & 2RP-3703

- ELECTRIC LINE
- GAS LINE
- EXCAVATION EXTENT (2RP-3127)
- EXCAVATION EXTENT (2RP-3260)
- EXCAVATION EXTENT (2RP-3703)
- LINER EXTENT

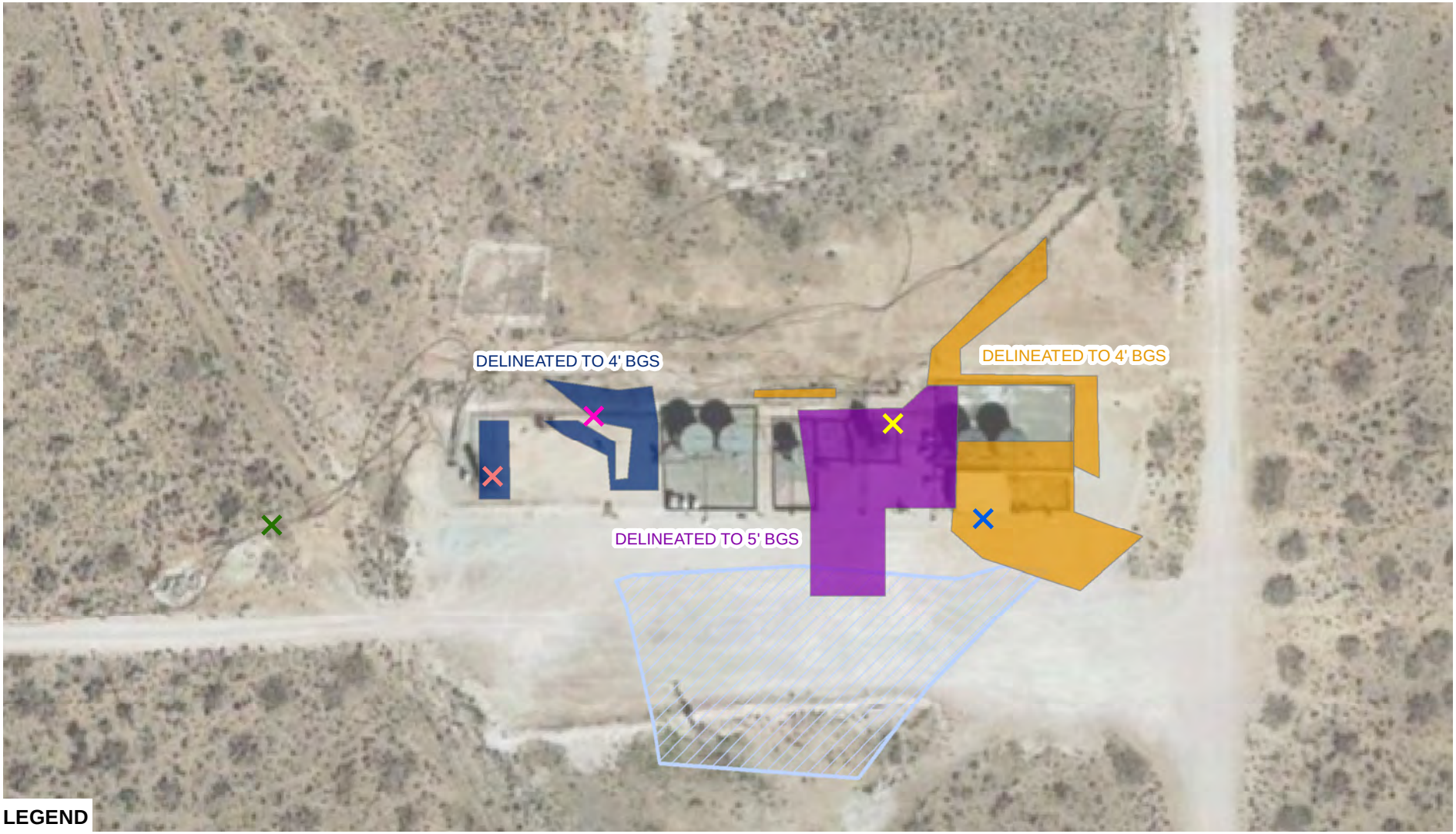
IMAGE COURTESY OF GOOGLE EARTH 2016

0 40 80
Feet

N

FIGURE 4B
EXCAVATION SOIL SAMPLE LOCATIONS
INDIAN FLATS BASS FEDERAL SWD
UNIT J SEC 35 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917061_INDIAN FLATS BASS FEDERAL SWD\012917061_FIG04B_EXCAVATION_ALL_051320_2020.mxd



LEGEND

- RELEASE LOCATION (2RP-3127)
- RELEASE LOCATION (2RP-3129)
- RELEASE LOCATION (2RP-3208)
- RELEASE LOCATION (2RP-3260)
- RELEASE LOCATION (2RP-3703)
- DEFERRAL AREA (2RP-3260 & 2RP-3703)
- DEFERRAL AREA (2RP-3208 & 2RP-3212)
- DEFERRAL AREA (2RP-3219)
- LINER EXTENT

NOTE: REMEDIATION PERMIT NUMBERS 2RP-3127, 2RP-3129, 2RP-3208, 2RP-3212, 2RP-3260, & 2RP-3703

IMAGE COURTESY OF GOOGLE EARTH 2016

0 70 140
Feet

N

FIGURE 5
DEFERRAL AREAS
INDIAN FLATS BASS FEDERAL SWD
UNIT J SEC 35 T21S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012917061_INDIAN FLATS BASS FEDERAL SWD\012917061_FIG05_DEFERRAL_2020.mxd

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
SS-1	2RP-3260	0.5	12/27/2017	<0.000569	<0.00569	<0.000569	<0.00171	<0.00569	<0.114	18.1	20.2	38.3	--	--	114	--
SS-2	2RP-3260	0.5	12/27/2017	<0.000540	<0.00540	<0.000540	<0.00162	<0.00540	<0.108	<43.2	136	**136**	--	--	103	--
SS-3	2RP-3260	0.5	12/27/2017	<0.000549	<0.00549	<0.000549	<0.00165	<0.00549	<0.110	168	358	526	--	--	4,970	--
SS-4	2RP-3260	0.5	12/27/2017	<0.000557	<0.00557	<0.000557	<0.00167	<0.00557	<0.111	8.01	13.8	21.8	--	--	370	--
SS-5	2RP-3260	0.5	12/27/2017	<0.000567	<0.00567	<0.000567	<0.00170	<0.00567	<0.113	10,900	7,320	**18,220**	--	--	**2,540**	--
SS-6	2RP-3260	0.5	12/27/2017	0.000593	<0.00578	<0.000578	<0.00173	0.000593	<0.116	119	94.7	**214**	--	--	**9,660**	--
PH01	2RP-3260	15	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	682
PH02	2RP-3260	1	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	<5.04	--
PH02A	2RP-3260	2	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	<5.02	--
PH02B	2RP-3260	3	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	--	--	<4.98	--
PH02C	2RP-3260	4	10/17/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	<5.00
PH02D	2RP-3260	5	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<5.03
PH02E	2RP-3260	6	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<5.05
PH02F	2RP-3260	7	10/17/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	<5.05
PH02G	2RP-3260	8	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	<5.05
PH02H	2RP-3260	9	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<4.98
PH02I	2RP-3260	10	10/17/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<5.00
PH02J	2RP-3260	12	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	<5.04
PH02K	2RP-3260	13	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<5.02
PH02L	2RP-3260	14	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	<4.96
PH02M	2RP-3260	15	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<5.00
PH03	2RP-3260	1	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	389	132	**521**	--	--	**1,900**	--
PH03A	2RP-3260	2	10/17/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	640	206	**846**	--	--	**2,250**	--
PH03B	2RP-3260	3	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	861	249	**1,110**	--	--	**3,070**	--
PH03C	2RP-3260	4	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	739	217	--	739	956	--	2,280
PH03D	2RP-3260	5	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	965	256	--	965	1,220	--	2,780
PH03E	2RP-3260	6	10/17/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	2,960	450	--	**2,960**	**3,410**	--	5,630
PH03F	2RP-3260	7	10/17/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	2,560	389	--	**2,560**	**2,950**	--	2,590
PH03G	2RP-3260	8	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	801	151	--	801	952	--	3,900
PH03H	2RP-3260	9	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	1,410	264	--	**1,410**	1,670	--	3,640
PH03I	2RP-3260	10	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	1,960	278	--	**1,960**	2,240	--	3,390
PH03J	2RP-3260	11	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	176	<49.9	--	176	176	--	2,750
PH03K	2RP-3260	12	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	786	134	--	786	920	--	2,800

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
PH03L	2RP-3260	13	10/17/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	332	73.7	--	332	406	--	1,740
PH03M	2RP-3260	14	10/17/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	198	<49.8	--	198	198	--	1,230
PH03N	2RP-3260	15	10/17/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	492
PH04	2RP-3260	1	10/18/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	--	--	**2,900**	--
PH04A	2RP-3260	2	10/18/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	105	<50.0	**105**	--	--	**2,600**	--
PH04B	2RP-3260	3	10/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	--	--	**2,090**	--
PH04C	2RP-3260	4	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,000
PH04D	2RP-3260	5	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	297
PH04E	2RP-3260	6	10/18/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	924
PH04F	2RP-3260	7	10/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	617
PH04G	2RP-3260	8	10/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	290
PH04H	2RP-3260	9	10/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	422
PH04I	2RP-3260	11	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,500
PH04J	2RP-3260	12	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	763
PH04K	2RP-3260	13	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	887
PH04L	2RP-3260	14	10/18/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	826
PH04M	2RP-3260	15	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	858
PH04N	2RP-3260	16	10/18/2019	<0.000992	<0.000992	<0.000992	<0.000992	<0.000992	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	696
PH05	2RP-3260	1	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	154	--
PH05A	2RP-3260	2	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	315	--
PH05B	2RP-3260	3	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	**1,320**	--
PH05C	2RP-3260	4	10/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,830
PH05D	2RP-3260	5	10/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	2,590
PH05E	2RP-3260	6	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	1,760
PH05F	2RP-3260	8	10/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,740
PH05G	2RP-3260	9	10/18/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,440
PH05H	2RP-3260	10	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,170
PH05I	2RP-3260	11	10/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,120
PH05J	2RP-3260	13	10/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	628
PH05K	2RP-3260	14	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	536
PH05L	2RP-3260	15	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	922
BH01	2RP-3260	1	10/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	--	--	405	--
BH01A	2RP-3260	2	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	**679**	--
BH02	2RP-3260	1	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	139	<50.0	**139**	--	--	21.5	--

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
BH02A	2RP-3260	2	10/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	1050	192	**1,240**	--	--	131	--
FS01	2RP-3260, 2RP-3703	3	10/15/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.1	152	<50.1	**152**	--	--	**5,160**	--
FS02	2RP-3260, 2RP-3703	3	10/15/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.2	181	<50.2	**181**	--	--	**2,270**	--
FS03	2RP-3260, 2RP-3703	3	10/15/2019	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<50.2	105	<50.2	**105**	--	--	**1,930**	--
FS04	2RP-3260, 2RP-3703	3	10/15/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.1	349	70.5	**420**	--	--	**1,830**	--
FS05	2RP-3260, 2RP-3703	4	02/25/2020	<0.00200	<0.00201	<0.00202	<0.00200	<0.00200	<75.2	369	<75.2	--	369	369	--	1,880
FS06	2RP-3260, 2RP-3703	4	02/25/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	2,860
FS07	2RP-3260, 2RP-3703	4	02/28/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	114	<49.9	--	114	114	--	821
FS08	2RP-3260, 2RP-3703	4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	2,250
FS09	2RP-3260, 2RP-3703	4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	310	68.8	--	310	379	--	1,200
FS10	2RP-3260, 2RP-3703	2 - 4	03/02/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	503	102	**605**	--	--	**626**	--
FS10A	2RP-3260, 2RP-3703	4	04/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	56.6	<50.2	--	56.6	56.6	--	551
FS11	2RP-3260, 2RP-3703	4 - 11	03/03/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	66.3	<50.1	--	66.3	66.3	--	1,700
FS12	2RP-3260, 2RP-3703	4	03/03/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,410
FS13	2RP-3260, 2RP-3703	4	03/03/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	874
FS14	2RP-3260, 2RP-3703	4	03/03/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,290
FS15	2RP-3260, 2RP-3703	4	03/03/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	233
FS16	2RP-3260, 2RP-3703	4	03/03/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	689
FS17	2RP-3260, 2RP-3703	4	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	1,840
SW01	2RP-3260, 2RP-3703	1 - 3	10/15/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	141	<50.2	**141**	--	--	**2,030**	--
SW02	2RP-3260, 2RP-3703	1 - 3	10/15/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.3	243	65.0	**308**	--	--	**2,900**	--
SW03	2RP-3260, 2RP-3703	1 - 3	10/15/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.3	123	<50.3	**123**	--	--	**2,320**	--
SW04	2RP-3260, 2RP-3703	1 - 3	10/15/2020	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	211	<50.2	**211**	--	--	533	--
SW05	2RP-3260, 2RP-3703	0 - 4	02/25/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<75.2	1,390	240	**1,630**	--	--	310	--
SW5A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	67.1	--
SW5B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	93.5	<49.9	--	93.5	93.5	--	263
SW06	2RP-3260, 2RP-3703	0 - 4	02/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<74.9	852	204	**1,060**	--	--	485	--
SW6A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	198	<50.0	**198**	--	--	72.1	--
SW6B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	392	78.7	--	392	471	--	1,770
SW07	2RP-3260, 2RP-3703	2	02/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	334	86.2	**420**	--	--	**1,820**	--
SW07A	2RP-3260, 2RP-3703	4	02/25/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<74.7	304	76.1	--	304	380	--	2,300
SW08	2RP-3260, 2RP-3703	2	02/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<75.2	689	161	**850**	--	--	**2,040**	--
SW08A	2RP-3260, 2RP-3703	4	02/25/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	1,930
SW09	2RP-3260, 2RP-3703	0 - 4	02/28/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	91.6	<50.0	91.6	--	--	383	--

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
SW10	2RP-3260, 2RP-3703	0 - 4	02/28/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	53.4	<50.0	53.4	--	--	356	--
SW11	2RP-3260, 2RP-3703	0 - 4	02/28/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	53.2	<50.0	53.2	--	--	237	--
SW12	2RP-3260, 2RP-3703	1 - 4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	699	150	**849**	--	--	**1,230**	--
SW12A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	--	--	**1,750**	--
SW12B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	--	<49.8	<49.8	**--**	**1,140**
SW13	2RP-3260, 2RP-3703	1 - 4	03/02/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	475	94.7	**570**	--	--	500	--
SW13A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	2,520	634	**3,150**	--	--	**606**	**--**
SW13B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	609	212	--	609	821	--	267
SW14	2RP-3260, 2RP-3703	1 - 4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	198	52.3	**250**	--	--	**857**	**--**
SW14A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00180	<0.00180	<0.00180	<0.00180	<0.00180	<49.8	972	288	**1,260**	--	--	240	--
SW14B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	444
SW15	2RP-3260, 2RP-3703	1 - 11	03/03/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	88.8	<49.8	88.8	--	--	**854**	**--**
SW15A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	--	--	64.1	
SW15B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	195
SW16	2RP-3260, 2RP-3703	1 - 4	03/03/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	68.3	<49.8	68.3	--	--	**940**	--
SW17	2RP-3260, 2RP-3703	1 - 4	03/03/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	--	--	479	**--**
SW18	2RP-3260, 2RP-3703	1 - 4	03/03/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	--	--	**856**	--
SW18A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	--	--	<9.98	--
SW18B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	57.3
SW19	2RP-3260, 2RP-3703	1 - 4	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	--	--	153	
SW20	2RP-3260, 2RP-3703	0 - 4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	--	--	<10.1	--
SW21	2RP-3260, 2RP-3703	1 - 4	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	--	--	521	521
SW22	2RP-3260, 2RP-3703	0 - 4	04/06/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	130	<50.1	**130**	--	**--**	447	--
SW22A	2RP-3260, 2RP-3703	2	04/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	60.6	<50.0	60.6	--	--	226	--
SW22B	2RP-3260, 2RP-3703	4	04/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	149	<50.2	**--**	149	**149**	--	49.7
SS1	2RP-3703	0.5	01/25/2018	<0.000555	<0.00555	<0.000555	<0.00167	<0.00167	<0.111	2,460	1,870	**4,330**	**--**	**--**	161	**--**
SS2	2RP-3703	0.5	01/25/2018	<0.000541	<0.00541	<0.000541	<0.00162	<0.00162	<0.108	17.1	18.4	35.5	--	--	**7,980**	--
SS3	2RP-3703	0.5	01/25/2018	<0.000553	<0.00553	<0.000553	<0.00166	<0.00166	<0.111	8.75	17.5	26.3	--	--	80.7	**--**
SS4	2RP-3703	0.5	01/25/2018	<0.000514	<0.00514	<0.000514	<0.00154	<0.00154	<0.103	88.6	273	**362**	--	**--**	122	**--**
SS5	2RP-3703	0.5	01/25/2018	<0.000524	<0.00524	<0.000524	<0.00157	<0.00157	<0.105	2,050	1,140	**3,190**	--	--	**789**	--
PH01	2RP-3703	1	10/18/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	664	193	**857**	--	**--**	229	--
PH01A	2RP-3703	2	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	231	69.9	**301**	--	**--**	278	--
PH01B	2RP-3703	3	10/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	101	<49.9	**101**	--	**--**	528	--
PH01C	2RP-3703	4	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	459

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
PH02	2RP-3703	1	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	503	150	**653**	--	--	**1,310**	--
PH02A	2RP-3703	2	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	388	110	**498**	--	--	**2,780**	--
PH02B	2RP-3703	3	10/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	618	152	**770**	--	--	**3,120**	--
PH02C	2RP-3703	4	10/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	1,120	199	--	**1,120**	1,320	--	2,950
BH01	2RP-3703	1	10/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	2,380	570	**2,950**	--	--	**1,160**	--
BH02	2RP-3703	1	10/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	1,150	461	**1,610**	--	--	406	--
FS01	2RP-3260, 2RP-3703	3	10/15/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.1	152	<50.1	**152**	--	--	**5,160**	--
FS02	2RP-3260, 2RP-3703	3	10/15/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.2	181	<50.2	**181**	--	--	**2,270**	--
FS03	2RP-3260, 2RP-3703	3	10/15/2019	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<50.2	105	<50.2	**105**	--	--	**1,930**	--
FS04	2RP-3260, 2RP-3703	3	10/15/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.1	349	70.5	**420**	--	--	**1,830**	--
FS05	2RP-3260, 2RP-3703	4	02/25/2020	<0.00200	<0.00201	<0.00202	<0.00200	<0.00200	<75.2	369	<75.2	--	369	369	--	1,880
FS06	2RP-3260, 2RP-3703	4	02/25/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	2,860
FS07	2RP-3260, 2RP-3703	4	02/28/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	114	<49.9	--	114	114	--	821
FS08	2RP-3260, 2RP-3703	4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	2,250
FS09	2RP-3260, 2RP-3703	4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	310	68.8	--	310	379	--	1,200
FS10	2RP-3260, 2RP-3703	2 - 4	03/02/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	503	102	**605**	--	--	**626**	--
FS10A	2RP-3260, 2RP-3703	4	04/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	56.6	<50.2	--	56.6	56.6	--	551
FS11	2RP-3260, 2RP-3703	4 - 11	03/03/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	66.3	<50.1	--	66.3	66.3	--	1,700
FS12	2RP-3260, 2RP-3703	4	03/03/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,410
FS13	2RP-3260, 2RP-3703	4	03/03/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	874
FS14	2RP-3260, 2RP-3703	4	03/03/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,290
FS15	2RP-3260, 2RP-3703	4	03/03/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	233
FS16	2RP-3260, 2RP-3703	4	03/03/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	689
FS17	2RP-3260, 2RP-3703	4	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	1,840
SW01	2RP-3260, 2RP-3703	1 - 3	10/15/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	141	<50.2	**141**	--	--	**2,030**	--
SW02	2RP-3260, 2RP-3703	1 - 3	10/15/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.3	243	65.0	**308**	--	--	**2,900**	--
SW03	2RP-3260, 2RP-3703	1 - 3	10/15/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.3	123	<50.3	**123**	--	--	**2,320**	--
SW04	2RP-3260, 2RP-3703	1 - 3	10/15/2020	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	211	<50.2	**211**	--	--	533	--
SW05	2RP-3260, 2RP-3703	0 - 4	02/25/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<75.2	1,390	240	**1,630**	--	--	310	--
SW5A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	67.1	--
SW5B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	93.5	<49.9	--	93.5	93.5	--	263
SW06	2RP-3260, 2RP-3703	0 - 4	02/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<74.9	852	204	**1,060**	--	--	485	--
SW6A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	198	<50.0	**198**	--	--	72.1	--
SW6B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	392	78.7	--	392	471	--	1,770

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
SW07	2RP-3260, 2RP-3703	2	02/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	334	86.2	**420**	--	**--**	**1,820**	**--**
SW07A	2RP-3260, 2RP-3703	4	02/25/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<74.7	304	76.1	--	304	380	--	2,300
SW08	2RP-3260, 2RP-3703	2	02/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<75.2	689	161	**850**	--	**--**	**2,040**	**--**
SW08A	2RP-3260, 2RP-3703	4	02/25/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	1,930
SW09	2RP-3260, 2RP-3703	0 - 4	02/28/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	91.6	<50.0	91.6	--	--	383	--
SW10	2RP-3260, 2RP-3703	0 - 4	02/28/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	53.4	<50.0	53.4	--	--	356	--
SW11	2RP-3260, 2RP-3703	0 - 4	02/28/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	53.2	<50.0	53.2	--	--	237	--
SW12	2RP-3260, 2RP-3703	1 - 4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	699	150	**849**	--	--	**1,230**	--
SW12A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	--	--	**1,750**	--
SW12B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	--	<49.8	<49.8	**--**	1,140
SW13	2RP-3260, 2RP-3703	1 - 4	03/02/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	475	94.7	**570**	--	--	500	--
SW13A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	2,520	634	**3,150**	--	--	**606**	**--**
SW13B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	609	212	--	609	821	--	267
SW14	2RP-3260, 2RP-3703	1 - 4	03/02/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	198	52.3	**250**	--	--	**857**	**--**
SW14A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00180	<0.00180	<0.00180	<0.00180	<0.00180	<49.8	972	288	**1,260**	--	--	240	--
SW14B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	444
SW15	2RP-3260, 2RP-3703	1 - 11	03/03/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	88.8	<49.8	88.8	--	--	**854**	**--**
SW15A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	--	--	64.1	
SW15B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	195
SW16	2RP-3260, 2RP-3703	1 - 4	03/03/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	68.3	<49.8	68.3	--	--	**940**	--
SW17	2RP-3260, 2RP-3703	1 - 4	03/03/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	--	--	479	**--**
SW18	2RP-3260, 2RP-3703	1 - 4	03/03/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	--	--	**856**	--
SW18A	2RP-3260, 2RP-3703	2	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	--	--	<9.98	--
SW18B	2RP-3260, 2RP-3703	4	03/05/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	57.3
SW19	2RP-3260, 2RP-3703	1 - 4	03/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	--	--	153	
SW20	2RP-3260, 2RP-3703	0 - 4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	--	--	<10.1	--
SW21	2RP-3260, 2RP-3703	1 - 4	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	--	--	521	521
SW22	2RP-3260, 2RP-3703	0 - 4	04/06/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	130	<50.1	**130**	--	**--**	447	--
SW22A	2RP-3260, 2RP-3703	2	04/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	60.6	<50.0	60.6	--	--	226	--
SW22B	2RP-3260, 2RP-3703	4	04/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	149	<50.2	**--**	149	149	--	49.7
SS-1	2RP-3129	0.5	12/27/2017	<0.000525	<0.00525	<0.000525	<0.00157	<0.00525	<0.105	81.7	121	**203**	--	**--**	**1,570**	**--**
SS-2	2RP-3129	0.5	12/27/2017	0.000954	<0.00524	<0.000524	<0.00157	0.000954	<0.105	28.4	33.0	61.4	--	--	270	**--**
SS-3	2RP-3129	0.5	12/27/2017	<0.000535	<0.00535	<0.000535	<0.00161	<0.00535	<0.107	40.4	41.2	81.6	--	--	104	**--**
SS-4	2RP-3129	0.5	12/27/2017	0.000669	<0.00537	<0.000537	<0.00161	0.000669	<0.107	42.4	43.8	86.2	--	--	**1,620**	--

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
SS-5	2RP-3129	0.5	12/27/2017	<0.000528	<0.00528	<0.000528	<0.00158	<0.00528	<0.106	101	65.3	**166**	--	**--**	**4,450**	--
PH01	2RP-3129	1	10/16/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	--	--	293	--
PH01A	2RP-3129	2	10/16/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	--	--	447	--
PH01B	2RP-3129	3	10/16/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	--	--	354	--
PH01C	2RP-3129	4	10/16/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	957
PH01D	2RP-3129	5	10/16/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	777
PH02	2RP-3129	1	10/16/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	33.6	--
PH02A	2RP-3129	2	10/16/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	--	--	15.9	--
PH02B	2RP-3129	3	10/16/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	--	--	11.3	--
PH02C	2RP-3129	4	10/16/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	775
BH01	2RP-3129	1	10/18/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.3	<50.3	<50.3	<50.3	--	--	24.5	--
BH01A	2RP-3129	2	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.1	<50.1	<50.1	<50.1	--	--	**852**	--
BH02	2RP-3129	1	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	59.8	<50.2	59.8	--	--	**1,270**	--
BH02A	2RP-3129	2	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	<50.2	<50.2	<50.2	--	--	585	--
SS1	2RP-3127	0.5	01/25/2018	<0.000525	<0.00525	<0.000525	<0.00157	<0.00525	<0.105	<4.20	<4.20	<4.20	--	--	476	--
SS2	2RP-3127	0.5	01/25/2018	<0.000508	<0.00508	<0.000508	<0.00152	<0.00508	<0.102	<4.06	9.39	9.39	--	--	45.4	**--**
SS3	2RP-3127	0.5	01/25/2018	<0.000513	<0.00513	<0.000513	<0.00154	<0.00513	<0.103	<4.11	<4.11	<4.11	--	--	32.9	--
SS4	2RP-3127	0.5	01/25/2018	<0.000541	<0.00541	<0.000541	<0.00162	<0.00541	<0.108	18.8	33.6	52.4	--	--	33.8	--
SS5	2RP-3127	0.5	01/25/2018	<0.000515	<0.00515	<0.000515	<0.00154	<0.00515	<0.103	85.9	120	**206**	--	--	494	--
PH01	2RP-3127	1	10/16/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	--	--	**1,480**	--
PH01A	2RP-3127	2	10/16/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	--	--	**1,380**	--
PH01B	2RP-3127	3	10/16/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	**1,780**	--
PH01C	2RP-3127	4	10/16/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,700
PH02	2RP-3127	1	10/16/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	--	--	<5.00	--
PH02A	2RP-3127	2	10/16/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	--	--	<5.00	--
PH02B	2RP-3127	3	10/16/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	<5.03	--
PH02C	2RP-3127	4	10/16/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<4.95
PH03	2RP-3127	1	10/16/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	--	--	258	--
PH03B	2RP-3127	2	10/16/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	--	--	561	--
PH04	2RP-3127	1	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	8.26	--
PH04A	2RP-3127	2	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	--	--	<5.05	--
PH04B	2RP-3127	3	10/17/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	--	--	<5.05	--
PH04C	2RP-3127	4	10/17/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	<5.00
BH01	2RP-3127	1	10/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	--	--	<5.00	--

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
BH01A	2RP-3127	2	10/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	--	--	<5.00	--
BH01B	2RP-3127	3	10/17/2019	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	--	--	<5.04	--
FS01	2RP-3127	4	02/28/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	743
FS02	2RP-3127	4	02/28/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	280
FS03	2RP-3127	4	02/28/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	932
SW01	2RP-3127	0 - 4	02/28/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	--	--	21.4	--
SW02	2RP-3127	0 - 4	02/28/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	--	--	86.4	--
SW03	2RP-3127	0 - 4	02/28/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	--	--	245	--
SS-1	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000517	<0.00517	<0.000517	<0.00155	<0.00517	<0.103	193	245	**438**	--	--	**4,060**	--
SS-2	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000549	<0.00549	<0.000549	<0.00165	<0.00549	<0.110	<4.39	5.03	5.03	--	--	**851**	--
SS-3	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000552	<0.00552	<0.000552	<0.00165	<0.00552	<0.110	`	8.20	8.20	--	--	**2,760**	--
SS-4	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000524	<0.00524	<0.000524	<0.00157	<0.00524	<0.105	<4.19	5.48	5.48	--	--	**10,600**	--
SS-5	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000523	<0.00523	<0.000523	<0.00157	<0.00523	<0.105	9.94	14.8	24.7	--	--	**10,100**	--
SS-6	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000537	<0.00537	<0.000537	<0.00161	<0.00537	<0.107	5.66	6.89	12.6	--	--	**13,300**	--
SS-7	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000578	<0.00578	<0.000578	<0.00173	<0.00578	<0.116	7.20	7.23	14.4	--	--	**4,000**	--
SS-8	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000540	<0.00540	<0.000540	<0.00162	<0.00540	<0.108	15.3	15.7	30.1	--	--	**3,780**	--
SS-9	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000525	<0.00525	<0.000525	<0.00158	<0.00525	<0.105	37.1	40.1	77.2	--	--	**5,680**	--
SS-10	2RP-3208, 2RP-3212	0.5	12/27/2017	<0.000518	<0.00518	<0.000518	<0.00155	<0.00518	<0.104	143	201	**344**	--	--	**2,510**	--
PH01	2RP-3208, 2RP-3212	1	10/18/2019	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<50.0	<50.0	<50.0	<50.0	--	--	**4,900**	--
PH01A	2RP-3208, 2RP-3212	2	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0	--	--	**5,290**	
PH02	2RP-3208, 2RP-3212	1	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	<50.2	<50.2	<50.2	--	--	**5,050**	--
PH02A	2RP-3208, 2RP-3212	2	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	--	--	**6,590**	--
PH03	2RP-3208, 2RP-3212	1	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	365	75.1	**440**	--	--	307	--
PH03A	2RP-3208, 2RP-3212	2	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.2	423	85.4	**508**	--	--	**3,810**	--
PH04	2RP-3208, 2RP-3212	1	10/18/2019	<0.000992	<0.000992	<0.000992	<0.000992	<0.000992	<50.1	<50.1	<50.1	<50.1	--	--	**613**	--
PH04A	2RP-3208, 2RP-3212	2	10/18/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<49.9	<49.9	<49.9	<49.9	--	--	**741**	--
PH05	2RP-3208, 2RP-3212	1	10/18/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.0	<50.0	<50.0	<50.0	--	--	431	--
PH05A	2RP-3208, 2RP-3212	2	10/18/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.0	<50.0	<50.0	<50.0	--	--	291	--
PH06	2RP-3208, 2RP-3212	1	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.3	<50.3	<50.3	<50.3	--	--	342	--
PH06A	2RP-3208, 2RP-3212	2	10/18/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.1	<50.1	<50.1	<50.1	--	--	262	--
PH07	2RP-3208, 2RP-3212	4	03/03/2020	<0.00500	<0.00500	0.0336	0.368	0.402	102	6,130	729	--	**6,230**	**6,960**	--	1,850
PH07A	2RP-3208, 2RP-3212	6	03/03/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<74.9	2,980	419	--	**2,980**	**3,400**	--	634
PH07B	2RP-3208, 2RP-3212	8	03/03/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,670
PH07C	2RP-3208, 2RP-3212	10	03/03/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	1,080

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
PH07D	2RP-3208, 2RP-3212	12	03/03/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	2,190
PH08	2RP-3208, 2RP-3212	2	03/23/2020	<0.00201	<0.00201	0.0126	0.0244	0.0370	<50.2	916	149	**1,070**	--	--	**1,860**	--
PH08A	2RP-3208, 2RP-3212	4	03/23/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	1,850
PH08B	2RP-3208, 2RP-3212	6	03/23/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	2,520
PH09	2RP-3208, 2RP-3212	2	03/23/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	--	--	444	--
PH09A	2RP-3208, 2RP-3212	4	03/23/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	423
PH10	2RP-3208, 2RP-3212	2	03/23/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	--	--	**1,440**	--
PH10A	2RP-3208, 2RP-3212	4	03/23/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	2,370
FS01	2RP-3208, 2RP-3212	8	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	394
FS02	2RP-3208, 2RP-3212	4	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	882
FS03	2RP-3208, 2RP-3212	4	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	1,560
FS04	2RP-3208, 2RP-3212	4	03/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	1,550
FS05	2RP-3208, 2RP-3212	4	03/06/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	1,540
FS06	2RP-3208, 2RP-3212	4	03/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	2,960
FS07	2RP-3208, 2RP-3212	4	03/09/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,490
FS08	2RP-3208, 2RP-3212	4	03/09/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	1,630
FS09	2RP-3208, 2RP-3212	4	03/09/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	1,340
FS10	2RP-3208, 2RP-3212	1.5	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	--	--	315	--
FS11	2RP-3208, 2RP-3212	1.5	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	--	--	355	--
FS12	2RP-3208, 2RP-3212	1.5	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	--	--	537	--
FS13	2RP-3208, 2RP-3212	1.5	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	--	--	265	--
FS14	2RP-3208, 2RP-3212	1.5	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	--	--	229	--
FS15	2RP-3208, 2RP-3212	1.5	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	--	--	171	--
FS16	2RP-3208, 2RP-3212	1.5	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	--	--	**814**	--
FS17	2RP-3208, 2RP-3212	4	03/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	173	<50.2	--	173	173	--	1,450
FS18	2RP-3208, 2RP-3212	4	03/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	1,270
FS19	2RP-3208, 2RP-3212	4	03/25/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	237
FS20	2RP-3208, 2RP-3212	4	03/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	673
FS21	2RP-3208, 2RP-3212	4	03/25/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	971
FS22	2RP-3208, 2RP-3212	4	03/25/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	1,570
FS23	2RP-3208, 2RP-3212	4	03/25/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	2,980
FS24	2RP-3208, 2RP-3212	6	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	2,020
FS25	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	2,070
FS26	2RP-3208, 2RP-3212	4	03/26/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	2,320

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
FS27	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	57.9	<50.1	--	57.9	57.9	--	1,480
FS28	2RP-3208, 2RP-3212	4	03/26/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.3	90.1	<50.3	--	90.1	90.1	--	1,770
FS29	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	2,340
FS30	2RP-3208, 2RP-3212	4	03/26/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	2,240
FS31	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,760
FS32	2RP-3208, 2RP-3212	4	03/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	58.1	<50.2	--	58.1	58.1	--	287
FS33	2RP-3208, 2RP-3212	4	03/26/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	1,130
FS34	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	2,240
FS35	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,850
FS36	2RP-3208, 2RP-3212	4	03/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	563
FS37	2RP-3208, 2RP-3212	4	03/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	67.0	<49.9	--	67.0	67.0	--	540
FS38	2RP-3208, 2RP-3212	4	03/26/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	904
FS39	2RP-3208, 2RP-3212	6	03/26/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	681
FS40	2RP-3208, 2RP-3212	4	03/26/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	95.0	<50.3	--	95.0	95.0	--	1,580
FS41	2RP-3208, 2RP-3212	6	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	606
FS42	2RP-3208, 2RP-3212	4	03/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	193
FS43	2RP-3208, 2RP-3212	6	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	533
FS44	2RP-3208, 2RP-3212	4	03/26/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	1,110
FS45	2RP-3208, 2RP-3212	4	04/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	--	<49.8	<49.8	--	1,090
FS45	2RP-3208, 2RP-3212	4	04/08/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	385
FS45	2RP-3208, 2RP-3212	4	04/14/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	863
SW01	2RP-3208, 2RP-3212	2	03/06/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	130	<49.8	**130**	--	**--**	**1,650**	**--**
SW01A	2RP-3208, 2RP-3212	4	03/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	1,800
SW01B	2RP-3208, 2RP-3212	8	03/06/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	77.4	<49.8	--	77.4	77.4	--	1,390
SW02	2RP-3208, 2RP-3212	2	03/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	160	<50.0	**160**	--	**--**	377	--
SW02A	2RP-3208, 2RP-3212	4	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.3	273	50.6	--	273	324	--	898
SW02B	2RP-3208, 2RP-3212	8	03/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.3	<50.3	<50.3	--	<50.3	<50.3	--	3,160
SW03	2RP-3208, 2RP-3212	1 - 4	03/09/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	--	--	**1,150**	--
SW04	2RP-3208, 2RP-3212	2	03/09/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	--	--	**2,650**	**--**
SW04A	2RP-3208, 2RP-3212	4	03/09/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	--	<49.9	<49.9	--	4,620
SW05	2RP-3208, 2RP-3212	2	03/09/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	--	--	**3,150**	**--**
SW05A	2RP-3208, 2RP-3212	4	03/09/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	1,850
SW06	2RP-3208, 2RP-3212	1 - 4	03/09/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	--	--	**1,230**	--

A proud member of WSP

TABLE 1
SOIL ANALYTICAL RESULTS

INDIAN FLATS BASS FEDERAL
REMEDIATION PERMIT NUMBER
2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3703
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	RP numbers	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg) 0-4 feet bgs	Total GRO+DRO (mg/kg) >/= 4 feet bgs	TPH (mg/kg) >/= 4 feet bgs	Chloride (mg/kg) 0 - 4 feet bgs	Chloride (mg/kg) >/= 4 feet bgs
NMOCD Table 1 Closure Criteria				**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**1,000**	**2,500**	**600**	**20,000**
SW07	2RP-3208, 2RP-3212	1 - 4	03/10/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	--	--	579	--
SW08	2RP-3208, 2RP-3212	0 - 4	03/18/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	--	--	450	--
SW09	2RP-3208, 2RP-3212	0 - 4	03/25/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	--	--	336	--
SW10	2RP-3208, 2RP-3212	0 - 4	03/25/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	--	--	401	--
SW11	2RP-3208, 2RP-3212	2	03/25/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	68.0	<50.2	68	--	--	240	--
SW11A	2RP-3208, 2RP-3212	4	03/25/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	781
SW12	2RP-3208, 2RP-3212	2	03/26/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	--	--	**1,260**	--
SW12A	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	--	<50.2	<50.2	--	1,390
SW13	2RP-3208, 2RP-3212	2	03/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	--	--	**3,840**	--
SW13A	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	--	<50.1	<50.1	--	1,710
SW14	2RP-3208, 2RP-3212	0 - 4	03/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	--	--	34.1	--
SW14A	2RP-3208, 2RP-3212	4 - 6	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	235
SW15	2RP-3208, 2RP-3212	2	03/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	177	60.1	237	--	--	**932**	--
SW15A	2RP-3208, 2RP-3212	4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	--	<50.0	<50.0	--	2,440
SW16	2RP-3208, 2RP-3212	0 - 4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	68.1	<50.1	68.1	--	--	276	--
SW17	2RP-3208, 2RP-3212	0 - 4	03/26/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	--	--	261	--
SW18	2RP-3208, 2RP-3212	0 - 4	03/26/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	--	--	408	--
SW19	2RP-3208, 2RP-3212	0 - 4	03/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	256	59.3	315	--	--	365	--
SW20	2RP-3208, 2RP-3212	0 - 4	04/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	--	--	**1,810**	--
SW20	2RP-3208, 2RP-3212	0 - 4	04/08/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	--	--	**605**	--
SW20	2RP-3208, 2RP-3212	0 - 4	04/14/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	--	--	146	--

Notes:

bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
MRO - motor oil range organics
NMAC - New Mexico Administrative Code
NMOCD - New Mexico Oil Conservation Division
NE - not established
TPH - total petroleum hydrocarbons
Bold - indicates result exceeds the applicable regulatory standard
Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018
TEXT -indicates soil sample that was later excavated

A proud member of WSP

ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141 (2RP-3260, 2RP-3129, 2RP-3127, 2RP-3208, 2RP-3212, 2RP-3700)

NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 14 2015
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1519854325

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Indian Flats Bass Federal #4 at Indian Flats Bass Federal SWD (SWD is located 2996 ft. SW of Well #1 API 30-015-24968)	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-22229

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	21S	28E	1652	South	2150	East	Eddy

Latitude 32.433934° **Longitude** -104.056149°

NATURE OF RELEASE

Type of Release Crude Oil and Produced Water	Volume of Release ¼ bbl oil, 5 bbls PW	Volume Recovered None
Source of Release Poly flow line	Date and Hour of Occurrence 7/4/15 hour unknown	Date and Hour of Discovery 7/4/15 8 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD) and Jim Amos (BLM)	
By Whom? Amy Ruth	Date and Hour 7/4/15 5:23 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Poly line ruptured by unknown cause. Poly line was clamped and the well was shut-in until the line was repaired.

Describe Area Affected and Cleanup Action Taken.*
The leak affected 525 square feet of pasture located just west of the Indian Flats Bass Federal SWD pad.

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:

Printed Name: Amy Ruth

Title: Assistant Remediation Foreman

E-mail Address: ACRuth@basspet.com

Date: 7/14/2015 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By

Approval Date: 7/17/15 Expiration Date: N/A

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 8/20/15

2RP-3127

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Ruth, Amy C. <ACRuth@BassPet.Com>
Sent: Tuesday, July 14, 2015 3:10 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: jamos@blm.gov
Subject: Initial C-141 - Indian Flats Bass Federal #4 flow line leak 7-4-15
Attachments: Initial C-141 - Indian Flats Bass Fed #4 (7-4-15).pdf

Please find the attached initial form C-141 and call me with any questions/concerns... Thanks ☺

From: Ruth, Amy C.
Sent: Saturday, July 04, 2015 5:23 PM
To: Mike Bratcher; 'Patterson, Heather, EMNRD'
Cc: jamos@blm.gov
Subject: Indian Flats Bass Federal #4 flow line leak 7-4-15

Our poly flow line ruptured and was discovered this morning at about 8 am. The GPS location is represented on the photo. The line was clamped and the well was shut in until the section can be replaced. The leak (oil and produced water) affected 525 square feet of pasture located just west of our North Indian Flats Battery. The leak is most likely just over 5 bbls. Volume will be confirmed and a C-141 will be submitted if needed. Thanks!

Amy C. Ruth
BOPCO, L.P.
EH&S Remediation Specialist
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office: (575)887-7329
Fax: (575)887-7473
Cell: (432)661-0571

Released to Imaging: 9/21/2022 2:36:52 PM

Patterson, Heather, EMNRD

From: Ruth, Amy C. <ACRuth@BassPet.Com>
Sent: Saturday, July 04, 2015 5:23 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: jamos@blm.gov
Subject: Indian Flats Bass Federal #4 flow line leak 7-4-15
Attachments: Image with leak area.jpg; IMG_0731.JPG

Our poly flow line ruptured and was discovered this morning at about 8 am. The GPS location is represented on the photo. The line was clamped and the well was shut in until the section can be replaced. The leak (oil and produced water) affected 525 square feet of pasture located just west of our North Indian Flats Battery. The leak is most likely just over 5 bbls. Volume will be confirmed and a C-141 will be submitted if needed. Thanks!

Amy C. Ruth
BOPCO, L.P.
EH&S Remediation Specialist
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office: (575)887-7329
Fax: (575)887-7473
Cell: (432)661-0571

Released to Imaging: 9/21/2022 2:36:52 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3127
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-3127
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.433934 Longitude -104.056149
(NAD 83 in decimal degrees to 5 decimal places)

Indian Flats Bass Federal #4 at Indian Flats Bass Federal SWD	Site Type Exploration and Production
Date Release Discovered 7/4/15	API# *(if applicable)* 30-015-22229

Unit Letter	Section	Township	Range	County
J	35	21S	28E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 0.25 bbls	Volume Recovered (bbls) None
☒ Produced Water	Volume Released (bbls) 5 bbls	Volume Recovered (bbls) None
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Poly line ruptured by unknown cause. Poly line was clamped, and the well was shut-in until the line was repaired.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3127
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD?	

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Jocelyn Harimon Date: 09/21/2022

Incident ID	
District RP	2RP-3127
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3127
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Jocelyn Harimon Date: 09/21/2022

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3127
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

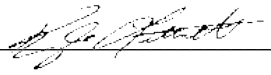
☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) ***(Note: This release closure is being submitted to formally close a release that occurred over a decade ago and photographs of the site from this time period were unavailable)***

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Jocelyn Harimon Date: 09/21/2022

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

Closure Approved by: Jocelyn Harimon Date: 09/21/2022

Printed Name: Title:

NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 14 2015
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1520127947 2007737

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Indian Flats Bass Federal SWD (SWD is located 2996 ft. SW of Well #1 API 30-015-24968)	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-24968

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	21S	28E	1652	South	2150	East	Eddy

Latitude 32.434071° Longitude -104.055193°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 13 bbls PW	Volume Recovered 1 bbl PW
Source of Release Water transfer line	Date and Hour of Occurrence 7/13/2015 hour unknown	Date and Hour of Discovery 7/13/2015 at 8:30 am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Surface steel water line developed a pinhole due to corrosion and produced water was released onto the well pad. The line was clamped, then isolated and repaired.

Describe Area Affected and Cleanup Action Taken.*
Leak affected 334 square feet of well pad within the bermed and fenced area. Vacuum truck recovered standing fluids. Impacted area was covered with plastic to prevent downward migration until addressed.

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: Amy Ruth

Printed Name: Amy Ruth

Title: Assistant Remediation Foreman

E-mail Address: ACRuth@basspet.com

Date: 7/14/2015 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Bradford Billings

Approval Date: 7/20/15 Expiration Date: N/A

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
~~SUBMIT REMEDIATION PROPOSAL NO~~
LATER THAN: 8/20/15

2RP-3129

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3129
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-3129
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.434071 Longitude -104.055193
(NAD 83 in decimal degrees to 5 decimal places)

Indian Flats Bass Federal at Indian Flats Bass Federal SWD	Site Type Exploration and Production
Date Release Discovered 7/13/15	API# *(if applicable)* 30-015-24968

Unit Letter	Section	Township	Range	County
J	35	21S	28E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 13 bbls	Volume Recovered (bbls) 1 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Surface steel water line developed a pinhole due to corrosion and produced water was released onto the well pad. The line was clamped, then isolated and repaired.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3129
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD?	

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3129
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3129
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3129
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

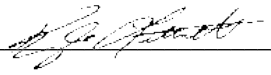
☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) ***(Note: This release closure is being submitted to formally close a release that occurred over a decade ago and photographs of the site from this time period were unavailable)***

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1523133089 260737

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Indian Flats Bass Federal SWD (SWD is located 2996 ft. SW of Well #1 Apl 30-015-24968)	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-24968

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	21S	28E	1652	South	2150	East	Eddy

Latitude 32.433935° **Longitude** -104.055036°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 145 bbls	Volume Recovered 85 bbls
Source of Release 1/2" fitting on SWD pump	Date and Hour of Occurrence 8/8/2015 unknown time	Date and Hour of Discovery 8/8/2015 11:30 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD), Jim Amos (BLM)	
By Whom? Tony Savoie	Date and Hour 8/9/2015 7:33 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 17 2015
RECEIVED

Describe Cause of Problem and Remedial Action Taken.*
A ½" inch fitting on the discharge side of the SWD pump failed. Pump shut down and fitting was repaired.

Describe Area Affected and Cleanup Action Taken.*
The leak affected approximately 2,250 square ft. area of caliche pad directly south of the SWD containment. A vac truck recovered fluids from the zero perm containment as well as from the ground. The leak on the caliche is within an area previously lined with 20-mil plastic.

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:

Printed Name: Amy Ruth

Title: Assistant Remediation Foreman

E-mail Address: ACRuth@basspet.com

Date: 8/17/2015 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 8/17/15 Expiration Date: NA

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 9/21/15

* Attach Additional Sheets If Necessary

CRP-3208

Patterson, Heather, EMNRD

From: Ruth, Amy C. <ACRuth@BassPet.Com>
Sent: Monday, August 17, 2015 11:06 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: jamos@blm.gov
Subject: Initial C-141 BOPCO Indian Flats Bass Federal SWD leak 8-8-2015
Attachments: Initial C-141 Indian Flats Bass Federal SWD 8-8-15.pdf

Here is the initial report for the leak on 8-8-15. Another will follow for 8-14-15 (this one was not as large, but happened in the exact same spot!)

Amy C. Ruth
BOPCO, L.P.
EH&S Remediation Specialist
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office: (575)887-7329
Fax: (575)887-7473
Cell: (432)661-0571

Released to Imaging: 9/21/2022 2:36:52 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3208
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-3208
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.433935 Longitude -104.055036
(NAD 83 in decimal degrees to 5 decimal places)

Indian Flats Bass Federal at Indian Flats Bass Federal SWD	Site Type Exploration and Production
Date Release Discovered 8/8/15	API# *(if applicable)* 30-015-24968

Unit Letter	Section	Township	Range	County
J	35	21S	28E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 145 bbls	Volume Recovered (bbls) 85 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A ½" inch fitting on the discharge side of the SWD pump failed. Pump shut down and fitting was repaired.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3208
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release is over 25 bbls.

If YES, was immediate notice given to the OCD?

Yes, notification given to Mike Bratcher/Heather Patterson (NMOCD), Jim Amos (BLM)

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Incident ID	
District RP	2RP-3208
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3208
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3208
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

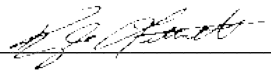
☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1523155412 260737

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Indian Flats Bass Federal SWD (SWD is located 2996 ft. SW of Well #1 Apl 30-015-24968)	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-24968

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	21S	28E	1652	South	2150	East	Eddy

Latitude 32.433935° **Longitude** -104.055036°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 8 bbls	Volume Recovered 1 bbls
Source of Release 1/2" fitting on SWD pump	Date and Hour of Occurrence 8/13/2015 unknown time	Date and Hour of Discovery 8/13/2015 10:30 pm
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 17 2015
RECEIVED

Describe Cause of Problem and Remedial Action Taken.*
A ½" inch fitting on the discharge side of the east SWD pump failed. Pump shut down and fitting was repaired.

Describe Area Affected and Cleanup Action Taken.*
The leak affected approximately 3,058 square ft. area of caliche pad directly south of the SWD containment and surrounding containment on all sides. A vac truck recovered fluids from the zero perm containment as well as from the ground. The leak on the caliche is within an area previously lined with 20-mil plastic. The saturated surface soils were scraped up and removed to a NMOCD approved disposal facility.

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:

Printed Name: Amy Ruth

Title: Assistant Remediation Foreman

E-mail Address: ACRuth@basspet.com

Date: 8/17/2015 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 8/19/15 Expiration Date: N/A

Conditions of Approval: Attached ☐
Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 9/21/15

2RP-3212

* Attach Additional Sheets If Necessary

Patterson, Heather, EMNRD

From: Ruth, Amy C. <ACRuth@BassPet.Com>
Sent: Monday, August 17, 2015 2:37 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: jamos@blm.gov
Subject: Initial C-141 Indian Flats Bass Federal SWD leak on 8-13-2015
Attachments: Initial C-141 Indian Flats Bass Federal SWD 8-13-15.pdf

Here is another C-141 for this site within a week. Leak was from the other pump this time.

Amy C. Ruth
BOPCO, L.P.
EH&S Remediation Specialist
522 W. Mermod, Suite 704
Carlsbad, NM 88220
Office: (575)887-7329
Fax: (575)887-7473
Cell: (432)661-0571

Released to Imaging: 9/21/2022 2:36:52 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3212
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-3212
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.433935 Longitude -104.055036
(NAD 83 in decimal degrees to 5 decimal places)

Indian Flats Bass Federal at Indian Flats Bass Federal SWD	Site Type Exploration and Production
Date Release Discovered 8/13/15	API# *(if applicable)* 30-015-24968

Unit Letter	Section	Township	Range	County
J	35	21S	28E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 8 bbls	Volume Recovered (bbls) 1 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A ½" inch fitting on the discharge side of the east SWD pump failed. Pump shut down and fitting was repaired.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3212
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD?	

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3212
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3212
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3212
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

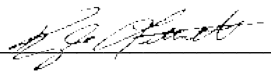
☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1526056410 2RP-3137

OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Indian Flats Bass Federal #1 Tank Battery (located 2996 ft. SW of Well #1 API 30-015-24968)	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-24968

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	21S	38E					Eddy

Latitude 32.43400° **Longitude** -104.05580°

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 7 bbls	Volume Recovered 2 bbls
Source of Release 2" fitting on line	Date and Hour of Occurrence 9/3/2015 time unknown	Date and Hour of Discovery 9/3/2015 time unknown
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 14 2015
RECEIVED

Describe Cause of Problem and Remedial Action Taken.*
A 2" fitting failed on the line going from the heater treater to the produced water tanks.

Describe Area Affected and Cleanup Action Taken.*
The leak affected 650 square feet of caliche pad within the area of the earthen containment. Standing fluids were recovered.

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:
Printed Name: Amy Ruth
Title: Assistant Remediation Foreman
E-mail Address: ACRuth@basspet.com
Date: 9/14/2015 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:
Approval Date: 9/17/15 Expiration Date: N/A
Conditions of Approval: Attached ☐
Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 10/22/15

2RP-3260

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3260
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-3260
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.43400 Longitude -104.05580
(NAD 83 in decimal degrees to 5 decimal places)

Indian Flats Bass Federal at Indian Flats Bass Federal SWD	Site Type Exploration and Production
Date Release Discovered 9/3/15	API# *(if applicable)* 30-015-24968

Unit Letter	Section	Township	Range	County
J	35	21S	38E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 7 bbls	Volume Recovered (bbls) 2 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A 2" fitting failed on the line going from the heater treater to the produced water tanks.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3260
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD?	

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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Incident ID	
District RP	2RP-3260
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141 State of New Mexico
Page 4 Oil Conservation Division

Incident ID	
District RP	2RP-3260
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3260
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☐ Detailed description of proposed remediation technique
☐ Scaled sitemap with GPS coordinates showing delineation points
☐ Estimated volume of material to be remediated
☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date:

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 19 2016
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1514429043 260737

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Indian Flats Bass Federal #4	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-22229

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	21S	28E	1600	South	2180	East	Eddy

Latitude 32.434080° **Longitude** -104.055649°

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 6.5 bbls	Volume Recovered: 5 bbls
Source of Release: Water dump line from Heater Treater	Date and Hour of Occurrence: 5/7/2016 time unknown	Date and Hour of Discovery: 5/7/2016 10 am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Leak developed on steel water dump line from heater treater due to internal corrosion. The line was clamped and isolated until repairs can be made.

Describe Area Affected and Cleanup Action Taken.*
The leak affected 396 ft² of caliche pad. Vacuum truck recovered standing fluids.

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:

Printed Name: Amy C. Ruth

Title: EHS Remediation Specialist

E-mail Address: ACRuth@basspet.com

Date: 5/19/2016 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 5/20/16 Expiration Date: N/A

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 6/24/16

3RP-3703

* Attach Additional Sheets If Necessary

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 19 2016
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1614428823 157984 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company OCCIDENTAL PERMIAN LTD	Contact JENNIFER DUARTE
Address PO BOX 4294; HOUSTON, TX 77210	Telephone No. 713-513-6640
Facility Name EEYORE 34 STATE #1 SATTALITE BATTERY	Facility Type BATTERY

Surface Owner STATE	Mineral Owner STATE	API No. 30-015-39383

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	34	17S	28E	738	NORTH	488	EAST	EDDY

Latitude_____ Longitude_____

NATURE OF RELEASE

Type of Release GAS – FLARE	Volume of Release 364 MCF	Volume Recovered 0 MCF
Source of Release GAS – FLARE	Date and Hour of Occurrence 05/18/2016 – BEGIN	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

FLARING DUE TO DCP CURTIALMENT.

Describe Area Affected and Cleanup Action Taken.*

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: Jennifer Duarte

Printed Name: JENNIFER DUARTE

Title: ENVIRONMENTAL SPECIALIST

E-mail Address: jennifer_duarte@oxy.com

Date: 05/19/2016 Phone: 713-513-6640

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Mike Bratcher

Approval Date: 5/20/16 Expiration Date: N/A

Conditions of Approval: Remediation per O.C.D. Rules & Guidelines. Attached ☐
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 6/24/16

2RP-3702

* Attach Additional Sheets If Necessary

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 19 2016
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1614427983

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company OXY USA INC 16696	Contact JENNIFER DUARTE
Address PO BOX 4294; HOUSTON, TX 77210	Telephone No. 713-513-6640
Facility Name ROGERS #1 CTB	Facility Type BATTERY

Surface Owner STATE	Mineral Owner STATE	API No. 30-015-24444

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	18S	26E					EDDY

Latitude 32.7305183 Longitude -104.3495407

NATURE OF RELEASE

Type of Release GAS – FLARE	Volume of Release 73 MCF	Volume Recovered 0 MCF
Source of Release GAS – FLARE	Date and Hour of Occurrence 05/18/2016 – BEGIN	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

FLARE DUE TO DCP CURTIALMENT.

Describe Area Affected and Cleanup Action Taken.*

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: Jennifer Duarte

Printed Name: JENNIFER DUARTE

Title: ENVIRONMENTAL SPECIALIST

E-mail Address: jennifer_duarte@oxy.com

Date: 05/19/2016 Phone: 713-513-6640

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By: Billie Brandon

Approval Date: 5/20/16 Expiration Date: N/A

Conditions of Approval:
Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 01/24/16

Attached ☐

2RP-3423

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3703
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #: 2RP-3703
Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.7305183 Longitude -104.3495407
(NAD 83 in decimal degrees to 5 decimal places)

Indian Flats Bass Federal #4	Site Type Exploration and Production
Date Release Discovered 5/7/16	API# *(if applicable)* 30-015-22229

Unit Letter	Section	Township	Range	County
J	35	21S	28E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 6.5 bbls	Volume Recovered (bbls) 5 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Leak developed on steel water dump line from heater treater due to internal corrosion. The line was clamped and isolated until repairs can be made.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3703
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

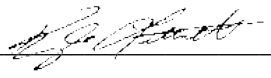
☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been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

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3703
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3703
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-3703
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

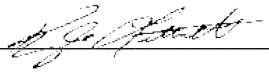
☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 5/13/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

ATTACHMENT 2: LITHOLOGIC / SOIL SAMPLE LOGS

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH01	Date: 10.16.19
Project Name: Indian Flats Bass Federal SWD	RP Number: 2RP-3129
Logged By: SL	Method: Machine
Lat/Long:	Field Screening: PID Chloride
Hole Diameter:	Total Depth: 5'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: TD @ 5'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			1- 5
D	1.8	0.0	N	PH01	1	1		Sand, Brown, no odor, no stain, poorly graded
D	2.0	0.0	N	PH01A	2	2	SP	
D	1	0.0	N	PH01B	3	3		
D	4.2	0.0	N	PH01C	4	4		4- some caliche gravel
D	2.2	0.0	N	PH01D	5	5		
					6			TD @ 5'
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH02	10.16.19
Project Name: Indian Flats Ba SD Federal	RP Number: 2RP-3129
Logged By: SL	Method: Trackhoe
Hole Diameter:	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID Chloride

Comments: TD @ 4'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D	<1	0.0	N	PH02	0–1	1	SP	Sand w/caliche gravel, tan, light brown, no odor, no stain, poorly graded
D	<1	0.0	N	PH02A	2	2	SP	2-4 Sand, brown, no stain, no odor, poorly graded, trace caliche
D	<1	0.0	N	PH02B	3	3		
D	3.0	0.0	N	PH02C	4	4		

1530
1540
1545
1550

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH01	Date: 10.16.19
Project Name: Indian Flats Boss Fed. #4	RP Number: 2RP-3127
Logged By: SL	Method: Trackhoe
Lat/Long:	Field Screening: PID Chloride
Hole Diameter:	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Refusal @ 4'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			1-4 sand, silt, tan, poorly graded, no stain, no odor
1120 D	4[	0.0	N	PH01	1	1		
1125 D	4	0.0	N	PH01A	2	2	SW-SM	-3-4- caliche gravel, some
1135 D	4.4	0.0	N	PH01B	3	3		
1140 D	4.0	0.0	N	PH01C	4	4		TD @ 4
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH02	Date: 10.16.19
Project Name: Indian Flats Bass Fed #4	RP Number: 2RP.3127
Logged By: SL	Method: Trackhoe
Hole Diameter:	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID Chloride

Comments: Refusal @ 4'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			1-4 Sand, Brown, tan, no odor, no stain trace silt, poorly graded
1145 D	<1	0.0	N	PH02	1	1	SW-SM	
1155 D	<1	0.0	N	PH02A	2	2		
1200 D	<1	0.0	N	PH02B	3	3		
1210 D	<1	0.0	N	PH02C	4	4		TD @ 4'
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH03	Date: 10.16.19
Project Name: Indian Flats Bass Fed. #4	RP Number: 2RP-3127
Logged By: SL	Method: Track hoe
Lat/Long:	Field Screening: (PID) Chloride
Hole Diameter:	Total Depth: 2'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Refusal @ 2'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			1 - 2
D	2.2	0.0	N	PH03	1	1	SP	sand, brown, no odor, no stain, poorly graded
1220								-2- caliche gravel, some, tan, light-brown
1225 D	2.2	0.0	N	PH03A	2	2		
					3			TD @ 2'
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH01	Date: 10-17-19
Project Name: Endless Flats Bass Fed #1	RP Number: 2RP-3260
Logged By: SL	Method: Track hoe
Lat/Long:	Field Screening: PID / Chloride
Hole Diameter:	Total Depth: 15'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: TD @ 15'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					12			open excavation, 3-4'; open trenches 10-11'
					13			@ -4' excavation trench 4-14'
					14			
1200 M	30 554	0.0	N	PH01	15	15	CH	15' - Sand, lean clay w/ gravel, no odor, no stain, tan brown, light brown, poorly graded, moist
					16			
					17			TD @ 15'
					18			
					19			
					20			
					21			
					22			
					23			
					24			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH02	Date: 10.17.2019
Project Name: Indian Flats Boss Fed #1	RP Number: 2RP-3660
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SL / Method: Truck hoe
Lat/Long:	Field Screening: ~~PID~~ ~~Chloride~~ / Hole Diameter: / Total Depth: 15'
Comments: TD @ 15'	

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
1210 D	Cl 4479	0.0	N	PH02-	1	1	SPSM	1-4 Sand, Brown, m-f, no stain, no odor, trace silt, poorly graded
1215 D	<1	0.0	N	PH02A	2	2		
1220 D	<1	0.1	N	PH02B	3	3		-3 - some caliché
1225 D	<1	0.1	N	PH02C	4	4		
1230 D	<1	0.1	N	PH02D	5	5	CAHE	4-9 Caliche gravel, light brown/tan, no stain no odor
1240 D	<1	0.0	N	PH02E	6	6		
1250 D	<1	0.0	N	PH02F	7	7		
1300 D	<1	0.0	N	PH02G	8	8		
1310 D	<1	0.0	N	PH02H	9	9		
1320 D	<1	0.0	N	PH02I	10	10	SP-SM	9-15 Sand, w/ some caliché, no stain, no odor, poorly graded, m-f, light brown
					11			
1335 M	<1	0.0	N	PH02J	12	12		

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH02	Date: 10.17.19
Project Name: Indian Flats Boss Fed #1	RP Number: 2RP-3260
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SL / Method: Trackhoe
Lat/Long:	Field Screening: PID / chlorides / Hole Diameter: / Total Depth: 15'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					12			
1340 M	<1	0.0	N	PH02K	13	13	SP-SM	
1350 M	<1	0.0	N	PH02L	14	14		
1400 M	<1	0.0	N	PH02M	15	15		
					16			TD @ 15'
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH03	Date: 10.17.19
Project Name: Indian Flats Bassfed #1	RP Number: nRP-3260
Logged By: SL	Method: Trackhoe
Lat/Long:	Field Screening: PID Chloride
Hole Diameter:	Total Depth: 15'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: TD @ 15

	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
						0			1-11
1400	M	5	0.0	N	PH03	1	1	SP-SM	Sand, Brown, m-f, no stain, odor, poorly graded, moist
1415	M	2.6 437	21.3	N	PH03A	2	2		
1420	M	6 1988	2.9	N	PH03B	3	3		
1430	M	5.4 1602	5.5	N	PH03C	4	4		-8 - dry
1440	M	6.4 2240	6.0	N	PH03D	5	5		
1445	M	7.2 3024	25.7	N	PH03E	6	6		
1450	M	6.8 2632	104.1	N	PH03F	7	7		
1500	D	6.6 2453	20.5	N	PH03G	8	8		
1505	D	6 1988	17.2	N	PH03H	9	9		-10 - some caliche', tan, light brown
1515	D	6 1988	64.4	N	PH03I	10	10		
1520	D	6 1988	21.9	N	PH03J	11	11		
								caCHE	11
1530	D	6 1988	14.8	N	PH03K	12	12		caliche' gravel, sand, tan, brown, light brown, no stain, odor.

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH03	10.17.19
Project Name:	**RP Number:**
Indian Flats Basal Fed #1	2RP-3260
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: JL / Method: Trackhoe
Lat/Long:	Field Screening: PID/Chloride / Hole Diameter: / Total Depth: 15'

Comments: TD@ 15'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					12			
1540 D	5.6 1719	6.3	N	PH03L	13	13		
1550 D	4 907	3.2	N	PH03M	14	14		
1600 D	2.0 297	0.2	N	PH03N	15	15		
					16			TD@ 15'
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH04	10.17.19
Project Name:	**RP Number:**
Indian Flats Bass Fed #4	2RP-3127
Logged By: SL	**Method:** Trackhoe
Lat/Long:	**Field Screening:** PID Chloride
Hole Diameter:	**Total Depth:** 41

LITHOLOGIC / SOIL SAMPLING LOG

Comments: TD @ 41

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
D	<1	0.2	N	PH04	1	1	SP	1 - Sand, brown, no odor, no stain, poorly graded
D		0.2	N	PH04A	2	2	SW-SM	2 - Sand, with caliche gravel, tan-light brown, no stain, no odor, poorly graded
D		0.2	N	PH04B	3	3		3-4 Sand, light brown, tan, no stain, no odor, poorly graded, trace caliche
D	<1	0.2	N	PH04C	4	4		TD @ 4
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220
Compliance · Engineering · Remediation

Identifier:	Date:
BH01	10/17/2019
Project Name: Indian Flats Bass Federal #4	RP Number: 3127

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: SL	Method: Hand Auger
Lat/Long:	Field Screening: PID, Cl-
Hole Diameter: 4"	Total Depth: 3'

Comments: Refusal @ 3'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D	<173	0.0	N	BH01	1		SW-SM	Sand, brown, no odor, no stain, poorly graded
D	<173	0.1	N	BH01A	2		SW-SM	Trace caliche gravel
D	<173	0.0	N	BH01B	3		SW-SM	Some caliche gravel

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH01	10.18.19
Project Name:	**RP Number:**
Indian Flats Boss Federal #4	2RP 3703
Logged By: SL	**Method:** Trackhoe
Lat/Long:	**Field Screening:** (PID) Chloride
Hole Diameter:	**Total Depth:** 4'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
D	<1 179	0.0	N	PH01	1	1	SP-SM	1-2 sand, brown, poorly sorted, m-f, no odor, no stain trace silt
D	<1	0.0	N	PH01A	2	2		-2- some caliche'
D	1.8 252	0.0	N	PH01B	3	3	CCHE	3-4 caliche', tan, light brown, no odor, no stain
D	7.8 493	0.0	N	PH01C	4	4		
					5			TD @ 4'
					6			
					7			
					8			
					9			
					10			
					11			
					12			

1340
1345
1350
1355

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH04	Date: 10-18-19
Project Name: Indian Flat Bass Federal #1	RP Number: 2RP-3260
Logged By: SL	Method: Trackhoe
Hole Diameter:	Total Depth: 15'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID Chloride

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
910 D	6.0 1988	0.0	N	PH04	1	1	SP-SM	1-2 Sand, w/ caliche gravel, light brown, tan, poorly graded, no stain, no odor, trace silt
915 D	5 1714	0.0	N	PH04A	2	2		
925 D	3.4 685	0.0	N	PH04B	3	3	CCHE	3-4 caliche, light brown, tan, no odor, no stain
930 D	3.2 614	0.0	N	PH04C	4	4		
935 D	2 297	0.0	N	PH04D	5	5	SP-SM	5-8 Sand, tan, poorly graded, no stain, no odor, trace caliche
945 D	3 554	0.0	N	PH04E	6	6		
955 M	2.8 483	0.0	N	PH04F	7	7		
1000 M	3 597	0.0	N	PH04G	8	8		
1010 D	2.0 297	0.0	N	PH04H	9	9	CCHE	9-15 Caliche gravel w/ sand, tan, light brown, no stain, no odor, poorly graded
					10			
1025 D	4.4 1075	0.0	N	PH04I	11	11		
1030 D	3.8 829	0.0	N	PH04J	12	12		

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH04	Date: 10.10.19
Project Name: Indian Flats Basal Federal #1	RP Number: 2RP-3260
Logged By: SL	Method: Trackhoe
Hole Diameter:	Total Depth: 15'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID / Chlorides

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1035 D	3.2 616	0.0	N	PH04 K	13	13	CCHE	
1045 D	3.0 554	0.0	N	PH04 L	14	14		
1055 D	3.2 616	0.0	N	PH04 M	15	15		TD @ 15'

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: BH01	Date: 10.18.19
Project Name: Indian Flats Base Fed #1	RP Number: 2RP-3260
Logged By: SL	Method: Hand Auger
Lat/Long:	Field Screening: PID / Chloride; Hole Diameter: 2"
	Total Depth: 2'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Auger Refusal @ 2'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1210 D	2.8 403	2.2	N	BH01	0–1	1	SP-SM	1-2 sand, Brown, slight odor, no staining, m-f, poorly graded, trace silt
1215 D	3.2 616	1.8	N	BH01A	1–2	2		
					2–12			TD / Auger Refusal @ 2'

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
BH02	10.18.19
Project Name: Indian Flats Bass Federal #	**RP Number:** 2RP-3260
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SL / Method: Hand Auger
Lat/Long: / Field Screening: PID Chloride	Hole Diameter: 2" / Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1220 D	<1 <179	3.8	N	BH02	0	1	SP-SM	1-2 Sand, Brown, slight odor, no stain, m-f, poorly graded, trace silt
1225 D	<1 <179	6.3	N	BH02A	1	2		-2- some caliche
					2			
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH01	10.18.19
Project Name: Eadem Flats Bass Federal SWD	RP Number: 2RP-3212
Logged By: SL	Method: Trackhoe
Hole Diameter:	Total Depth: 2'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID Chloride

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D	8.8	3.8	N	PH01	0	1	SP-SM	1-2 Sand, Brown, m-f, no stain, no odor, poorly graded, trace silt
D	4234	1.8	N	PH01	1	2		2- some caliche gravel
					2			TD @ 2
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

1520

1530

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH02	10.18.19
Project Name: Indian Flats Boss Federal SWD	RP Number: 2RP-7212
Logged By: SL	Method: Trackhoe
Hole Diameter:	Total Depth: 2'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID Chloride

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
1540 D	4.8 1271	1.3	N	PH02	1	1	SP-SM	1-2 Sand, w/ caliche gravel, some, m-f, no stain no odor, Brown, tan
1550 D	3.2 616	1.4	N	PH02A	2	2		TD @ 2'
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH03	10.18.19
Project Name:	**RP Number:**
Indian Flats Federal Base SWD	2RP-3212
Logged By: SL	**Method:** Trackhoe
Lat/Long:	**Field Screening:** PID / Chloride
Hole Diameter:	**Total Depth:** 2'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1600 D	6' 1486	2.7	N	PH03	0–1	1	SP-SW	1-2 Sand, caliche gravel, tan, Brown, m-f, poorly graded, no stain, no odor
1610 D	2' 7202	2.5	N	PH03A	1–2	2		
					2–12			TD @ 2'

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH04	10.18.19
Project Name: Indian Flats Fed Boss SWD	**RP Number:** 2RP-3212
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SL / Method: Trackhoe
Lat/Long: / Field Screening: PID Chloride	Hole Diameter: / Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1620 D	3.4 / 683	1.7	N	PH04	0 / 1	1	SP-SM	1-2 sand, w/ caliche gravel, tan/brown, m-f, no stain, no odor, poorly graded
1630 D	3 554	1.4	N	PH04A	2	2		TD @ 2'
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
pH05	10-18-19
Project Name: Indian Flats Gas Federal SWD	RP Number: 2RP-3212
Logged By: SL	Method: Trackhoe
Hole Diameter:	Total Depth: 2'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID Chloride

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1710 M	2.0 297	0.8	N	pH05	0	1	CL	1 - lean clay with sand, moist, tan, brown, no odor, no stain, m-f, poorly graded, ~~loose~~ SL
1720 M	1.8 1.52	0.8	N	pH05A	2	2	CH	2 - ~~sandy~~ fat Clay, ~~with sand~~ SL moist, tan, brown, no odor, no stain, m-f, poorly graded
					3			TD @ 2'
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH06	10.18.19
Project Name:	**RP Number:**
Indian Flats Bass Federal SWD	2RP-3212

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:	Field Screening: PID / Chloride	Logged By: SL	Method: Truck hoe
		Hole Diameter:	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1640 M	2.0 247	0.8	N	PH06	0 1	1	CL	1- lean clay, with sand, moist, tan, brown, no odor, no stain, m-f, poorly graded, some Cal. Liche' gravel
1650 N	1.8 252	0.9	N	PH06A	2	2	~~CH~~ CL	2- sandy ~~lean~~ lean clay, moist, tan, brown, no odor no stain, m-f, poorly graded
					3 4 5 6 7 8 9 10 11 12			TD @ 2'

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: BH01	Date: 10.18.19
Project Name: Indian Flats Bsa Federal SWD	RP Number: 2RP-3129
Logged By: SL	Method: Hand Auger
Lat/Long:	Field Screening: PID / Chloride
Hole Diameter: 2"	Total Depth: 2'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Auger Refusal @ 2'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D (1350)	<1 <179	0.4	N	BH01	0 1	1	GP-GM	1-2 gravel, tan brown, coarse-small, sand, poorly graded trace silt
D (1255)	4 907	0.9	N	BH01A	2	2		TD/ Auger Refusal @ 2'
					3 4 5 6 7 8 9 10 11 12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: BH02	Date: 10.18.19
Project Name: Exxon Flats Bass Federal SWD	RP Number: 2RP-3129
Logged By: SL	Method: Hand Auger
Lat/Long:	Field Screening: PID Chloride
Hole Diameter: 2"	Total Depth: 2'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Auger Refusal @ 2'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1300 D	5 1327	0.6	N	BH02	0		SP-SM	1-2 Sand, Brown, m-f, poorly graded, no Stain, no odor Trace silt
					1	1		
1305 D	2.6 437	0.5	N	BH02A	2	2		
								TD / Auger Refusal @ 2 feet
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier: PH05	Date: 10.18.19
Project Name: Indian Flats Boss Federal #1	RP Number: 2RP- 3260
Logged By: SL	Method: Track hoe
Hole Diameter:	Total Depth: 15'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID Chloride

Comments: TD @ 15'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D	1.1 1174	0.0	N	PH05	0 1	1	sprsm	1 - Sand, Brown, no staining, no odor, m-f poorly graded; trace silt
D	1.8 252	.02	N	PH05A	2	2		2 - 12 caliche gravel w/ sand, tan, light Brown, m-f, poorly graded
D	3.4 683	0.5	N	PH05B	3	3	caHE	
D	4.8 1271	1.1	N	PH05C	4	4		
D	5 1372	0.8	N	PH05D	5	5		
D	3 554	0.4	N	PH05E	6	6		
					7			
D	6 1988	0.5	N	PH05F	8	8		
D	4.8 1271	0.4	N	PH05G	9	9		
D	4.2 991	0.2	N	PH05H	10	10		
D	4.4 1075	0.5	N	PH05I	11	11		
					12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH05	10-18-19
Project Name: Indian Flats Boss Federal #1	**RP Number:** 2RP 5210
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SL / Method: Track Hoe
Lat/Long:	Field Screening: PID / Chloride / Hole Diameter: / Total Depth: 15'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					12			
1900 D	3 554	0.3	N	PH05J	13	13		13 - 14
1910 D	2.4 386	0.3	N	PH05K	14	14	SP	Sand, red, brown, med-f, no stain, no odor, poorly graded
1920 D	2.2 341	0.3	N	PH05L	15	15		14-15 caliche some, tan, light brown
					16			TD @ 15'
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
PH02	10.18.19
Project Name:	**RP Number:**
Indian Flats Bass Federal #4	2RP-3703
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: JL / Method: Trackhoe
Lat/Long:	Field Screening: PID / Chloride — Hole Diameter: — Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1400 D	3.8 829	2.2	N	PH02	0 1	1	SP-SM	1-4 sand, brown, poorly sorted, m-f, no odor no stain, trace silt
1410 D	6.0 1988	1.8	N	PH02A	2	2		
1415 D	6.6 2053	2.6	N	PH02B	3	3		-4 - slight odor
1420 D	7.4 3248	4.0	N	PH02C	4	4		
					5 6 7 8 9 10 11 12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
BH01	10.18.19
Project Name: Indian Flats Bass Federal #4	**RP Number:** 2RP-3703
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SL / Method: Hand Auger
Lat/Long: / Field Screening: PID Chloride	Hole Diameter: 2" / Total Depth: 1

Comments: Auger Refusal @ 1'

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D	4.2 991	6.5	N	BH01	0 1	1	SMSM	Sand, Brown, odor, no stain, m-f, poorly graded Trace silt
					2 3 4 5 6 7 8 9 10 11 12			TD / Auger Refusal @ 1'

1235

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Identifier:	Date:
BH02	10-18-19
Project Name: Indian Flats Basin Federal #1	**RP Number:** 2RP-3703
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SL / Method: Hand Auger
Lat/Long:	Field Screening: PID Chloride / Hole Diameter: 2" / Total Depth: 1'

Comments: Auger Refusal @ 1'

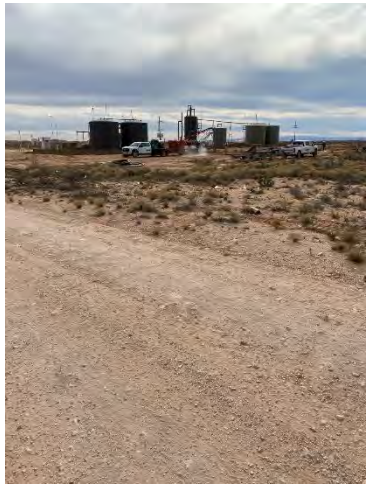
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1240					0			1
D	2 297	0.2	N	BH02	1	1	SP-SM	Sd, Brn, no odor, no stain, mst, poorly graded fine silt
					2			TD/Auger Refusal @ 1'
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG



Photograph 1: View of Watercourse Survey from southwest facing northeast.



Photograph 2: View of Watercourse Survey from northeast corner of pad facing southwest.



Photograph 3: View of Watercourse Survey from northeast pasture facing southwest.



Photograph 4: View of Watercourse Survey facing southwest.

Indian Flats Bass Federal
32.43400, - 104.05580
Photographs Taken: Febuary 24 – March 26, 2020

A proud member of WSP

PHOTOGRAPHIC LOG



Photograph 5: View of open excavation on West pad extent, facing Southwest (2RP-3260).



Photograph 6: View of open excavation on West pad extent, facing Northwest (2RP-3260).



Photograph 7: View of open excavation in pasture West of pad, facing North (2RP-3127).



Photograph 8: View of open excavation in pasture West of pad, facing Southeast (2RP-3127).

Released to Imaging: 9/21/2022 2:36:52 PM

PHOTOGRAPHIC LOG



Photograph 9: View of open excavation on West pad extent, facing East (2RP-3260).



Photograph 10: View of open excavation on West pad extent, facing South (2RP-3260).



Photograph 11: View of open excavation on West pad extent, facing North (2RP-3703).



Photograph 12: View of open excavation in pasture North of pad, facing North (2RP-3703).

Released to Imaging: 9/21/2022 2:36:52 PM

PHOTOGRAPHIC LOG



Photograph 13: View of open excavation in pasture North of pad, facing Northwest (2RP-3703).



Photograph 14: View of open excavation in Southwest pasture, facing South (2RP-3260 and 2RP-3703).



Photograph 15: View of open excavation center of pad, facing West (2RP-3212 and 2RP-3208).



Photograph 16: View of open excavation center of pad, facing East (2RP-3212 and 2RP-3208)

PHOTOGRAPHIC LOG



Photograph 17: View of open excavation in pasture Northeast of pad, facing North (2RP-3212 and 2RP-3208).



Photograph 18: View of open excavation in pasture Northeast of pad, facing East (2RP-3212 and 2RP-3208).



Photograph 19: View of open excavation in pasture Northeast of pad, facing West (2RP-3212 and 2RP-3208).



Photograph 20: View of backfill of excavation in center of pad, facing West (2RP-3212 and 2RP-3208).

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

February 06, 2018

XTO Energy- Delaware Division

Sample Delivery Group:	L965929
Samples Received:	01/26/2018
Project Number:	30-015-22229
Description:	Soil Samples
Site:	INDIAN FLATS BASS FEDERAL #4
Report To:	Kyle Littrell 6401 N Holiday Hill Rd Suite 200 Midland, TX 79707

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Released to Imaging: 9/21/2022 2:36:52 PM

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

SS1 L965929-01 5

SS2 L965929-02 6

SS3 L965929-03 7

SS4 L965929-04 8

SS5 L965929-05 9

Qc: Quality Control Summary 10

Total Solids by Method 2540 G-2011 10

Wet Chemistry by Method 300.0 11

Volatile Organic Compounds (GC) by Method 8015/8021 12

Semi-Volatile Organic Compounds (GC) by Method 8015 13

Gl: Glossary of Terms 14

Al: Accreditations & Locations 15

Sc: Sample Chain of Custody 16

Released to Imaging: 9/21/2022 2:36:52 PM

SS1 L965929-01 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	01/25/18 07:32	01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068398	1	01/31/18 13:21	01/31/18 13:30	JD
Wet Chemistry by Method 300.0	WG1067124	1	01/27/18 09:38	01/27/18 17:31	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067610	1	01/27/18 09:02	01/29/18 18:42	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067467	1	01/29/18 13:08	01/30/18 13:17	MTJ

SS2 L965929-02 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	01/25/18 07:35	01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068398	1	01/31/18 13:21	01/31/18 13:30	JD
Wet Chemistry by Method 300.0	WG1067124	1	01/27/18 09:38	01/27/18 17:40	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067610	1	01/27/18 09:02	01/29/18 19:06	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067467	1	01/29/18 13:08	01/30/18 14:05	MTJ

SS3 L965929-03 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	01/25/18 07:38	01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068398	1	01/31/18 13:21	01/31/18 13:30	JD
Wet Chemistry by Method 300.0	WG1067124	1	01/27/18 09:38	01/27/18 17:49	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067610	1	01/27/18 09:02	01/29/18 19:30	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067467	1	01/29/18 13:08	01/30/18 13:29	AAT

SS4 L965929-04 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	01/25/18 07:41	01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068398	1	01/31/18 13:21	01/31/18 13:30	JD
Wet Chemistry by Method 300.0	WG1067124	1	01/27/18 09:38	01/27/18 17:57	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067610	1	01/27/18 09:02	01/29/18 19:54	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067467	1	01/29/18 13:08	01/30/18 15:41	MTJ

SS5 L965929-05 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	01/25/18 07:44	01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068398	1	01/31/18 13:21	01/31/18 13:30	JD
Wet Chemistry by Method 300.0	WG1067124	1	01/27/18 09:38	01/27/18 18:06	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067610	1	01/27/18 09:02	01/29/18 20:18	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067467	2	01/29/18 13:08	01/30/18 16:17	MTJ

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	01/31/2018 13:30	WG1068398

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	476		10.5	1	01/27/2018 17:31	WG1067124

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000525	1	01/29/2018 18:42	WG1067610
Toluene	ND		0.00525	1	01/29/2018 18:42	WG1067610
Ethylbenzene	ND		0.000525	1	01/29/2018 18:42	WG1067610
Total Xylene	ND		0.00157	1	01/29/2018 18:42	WG1067610
TPH (GC/FID) Low Fraction	ND		0.105	1	01/29/2018 18:42	WG1067610
(S) a,a,a-Trifluorotoluene(FID)	*105*		*77.0-120*		*01/29/2018 18:42*	WG1067610
(S) a,a,a-Trifluorotoluene(PID)	*111*		*75.0-128*		*01/29/2018 18:42*	WG1067610

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.20	1	01/30/2018 13:17	WG1067467
C28-C40 Oil Range	ND		4.20	1	01/30/2018 13:17	WG1067467
(S) o-Terphenyl	*76.3*		*18.0-148*		*01/30/2018 13:17*	WG1067467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.5		1	01/31/2018 13:30	WG1068398

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	45.4		10.2	1	01/27/2018 17:40	WG1067124

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000508	1	01/29/2018 19:06	WG1067610
Toluene	ND		0.00508	1	01/29/2018 19:06	WG1067610
Ethylbenzene	ND		0.000508	1	01/29/2018 19:06	WG1067610
Total Xylene	ND		0.00152	1	01/29/2018 19:06	WG1067610
TPH (GC/FID) Low Fraction	ND		0.102	1	01/29/2018 19:06	WG1067610
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-120*		*01/29/2018 19:06*	WG1067610
(S) a,a,a-Trifluorotoluene(PID)	*109*		*75.0-128*		*01/29/2018 19:06*	WG1067610

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.06	1	01/30/2018 14:05	WG1067467
C28-C40 Oil Range	9.39		4.06	1	01/30/2018 14:05	WG1067467
(S) o-Terphenyl	*99.3*		*18.0-148*		*01/30/2018 14:05*	WG1067467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	01/31/2018 13:30	WG1068398

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	32.9		10.3	1	01/27/2018 17:49	WG1067124

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000513	1	01/29/2018 19:30	WG1067610
Toluene	ND		0.00513	1	01/29/2018 19:30	WG1067610
Ethylbenzene	ND		0.000513	1	01/29/2018 19:30	WG1067610
Total Xylene	ND		0.00154	1	01/29/2018 19:30	WG1067610
TPH (GC/FID) Low Fraction	ND		0.103	1	01/29/2018 19:30	WG1067610
(S) a,a,a-Trifluorotoluene(FID)	*105*		*77.0-120*		*01/29/2018 19:30*	WG1067610
(S) a,a,a-Trifluorotoluene(PID)	*111*		*75.0-128*		*01/29/2018 19:30*	WG1067610

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.11	1	01/30/2018 13:29	WG1067467
C28-C40 Oil Range	ND		4.11	1	01/30/2018 13:29	WG1067467
(S) o-Terphenyl	*90.2*		*18.0-148*		*01/30/2018 13:29*	WG1067467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	01/31/2018 13:30	WG1068398

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	33.8		10.8	1	01/27/2018 17:57	WG1067124

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000541	1	01/29/2018 19:54	WG1067610
Toluene	ND		0.00541	1	01/29/2018 19:54	WG1067610
Ethylbenzene	ND		0.000541	1	01/29/2018 19:54	WG1067610
Total Xylene	ND		0.00162	1	01/29/2018 19:54	WG1067610
TPH (GC/FID) Low Fraction	ND		0.108	1	01/29/2018 19:54	WG1067610
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-120*		*01/29/2018 19:54*	WG1067610
(S) a,a,a-Trifluorotoluene(PID)	*108*		*75.0-128*		*01/29/2018 19:54*	WG1067610

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	18.8		4.33	1	01/30/2018 15:41	WG1067467
C28-C40 Oil Range	33.6		4.33	1	01/30/2018 15:41	WG1067467
(S) o-Terphenyl	*90.6*		*18.0-148*		*01/30/2018 15:41*	WG1067467

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	01/31/2018 13:30	WG1068398

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	494		10.3	1	01/27/2018 18:06	WG1067124

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000515	1	01/29/2018 20:18	WG1067610
Toluene	ND		0.00515	1	01/29/2018 20:18	WG1067610
Ethylbenzene	ND		0.000515	1	01/29/2018 20:18	WG1067610
Total Xylene	ND		0.00154	1	01/29/2018 20:18	WG1067610
TPH (GC/FID) Low Fraction	ND		0.103	1	01/29/2018 20:18	WG1067610
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-120*		*01/29/2018 20:18*	WG1067610
(S) a,a,a-Trifluorotoluene(PID)	*109*		*75.0-128*		*01/29/2018 20:18*	WG1067610

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	85.9		8.24	2	01/30/2018 16:17	WG1067467
C28-C40 Oil Range	120		8.24	2	01/30/2018 16:17	WG1067467
(S) o-Terphenyl	*81.6*		*18.0-148*		*01/30/2018 16:17*	WG1067467

Received by OCD: 5/13/2020 2:22:43 PM

Method Blank (MB)

(MB) R3283243-1 01/31/18 13:30

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.001			

L965918-03 Original Sample (OS) • Duplicate (DUP)

(OS) L965918-03 01/31/18 13:30 • (DUP) R3283243-3 01/31/18 13:30

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.6	92.0	1	1		5

Laboratory Control Sample (LCS)

(LCS) R3283243-2 01/31/18 13:30

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Released to Imaging: 9/21/2022 2:36:52 PM

Method Blank (MB)

(MB) R3282504-1 01/27/18 12:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L965908-03 Original Sample (OS) • Duplicate (DUP)

(OS) L965908-03 01/27/18 14:33 • (DUP) R3282504-4 01/27/18 14:41

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	79.0	81.8	1	3.47		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282504-2 01/27/18 12:40 • (LCSD) R3282504-3 01/27/18 12:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	208	209	104	105	90-110			0.462	20

L965908-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L965908-05 01/27/18 14:58 • (MS) R3282504-5 01/27/18 15:24 • (MSD) R3282504-6 01/27/18 15:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	535	914	1440	1470	97.5	103	1	80-120	E	E	2.21	20

Received by OCD: 5/13/2020 2:22:43 PM

Method Blank (MB)

(MB) R3282841-5 01/29/18 11:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000185	J	0.000150	0.00500
Ethylbenzene	0.000131	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0233	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*111*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282841-1 01/29/18 10:00 • (LCSD) R3282841-2 01/29/18 10:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0565	0.0571	113	114	71.0-121			0.965	20
Toluene	0.0500	0.0522	0.0522	104	104	72.0-120			0.170	20
Ethylbenzene	0.0500	0.0498	0.0502	99.6	100	76.0-121			0.798	20
Total Xylene	0.150	0.140	0.141	93.5	93.9	75.0-124			0.356	20
(S) a,a,a-Trifluorotoluene(FID)				*106*	*106*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*109*	*109*	*75.0-128*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282841-3 01/29/18 10:47 • (LCSD) R3282841-4 01/29/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.69	5.69	103	103	70.0-136			0.0640	20
(S) a,a,a-Trifluorotoluene(FID)				*112*	*112*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*122*	*119*	*75.0-128*				

Released to Imaging: 9/21/2022 2:36:52 PM

Method Blank (MB)

(MB) R3282781-1 01/30/18 11:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.725	J	0.274	4.00
(S) o-Terphenyl	*93.4*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282781-2 01/30/18 11:31 • (LCSD) R3282781-3 01/30/18 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	40.4	39.6	67.4	65.9	50.0-150			2.18	20
(S) o-Terphenyl				*112*	*104*	*18.0-148*				

L965889-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L965889-05 01/30/18 12:06 • (MS) R3282781-4 01/30/18 12:18 • (MSD) R3282781-5 01/30/18 12:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	U	36.7	36.2	61.2	60.4	1	50.0-150			1.33	20
(S) o-Terphenyl					*94.9*	*92.9*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

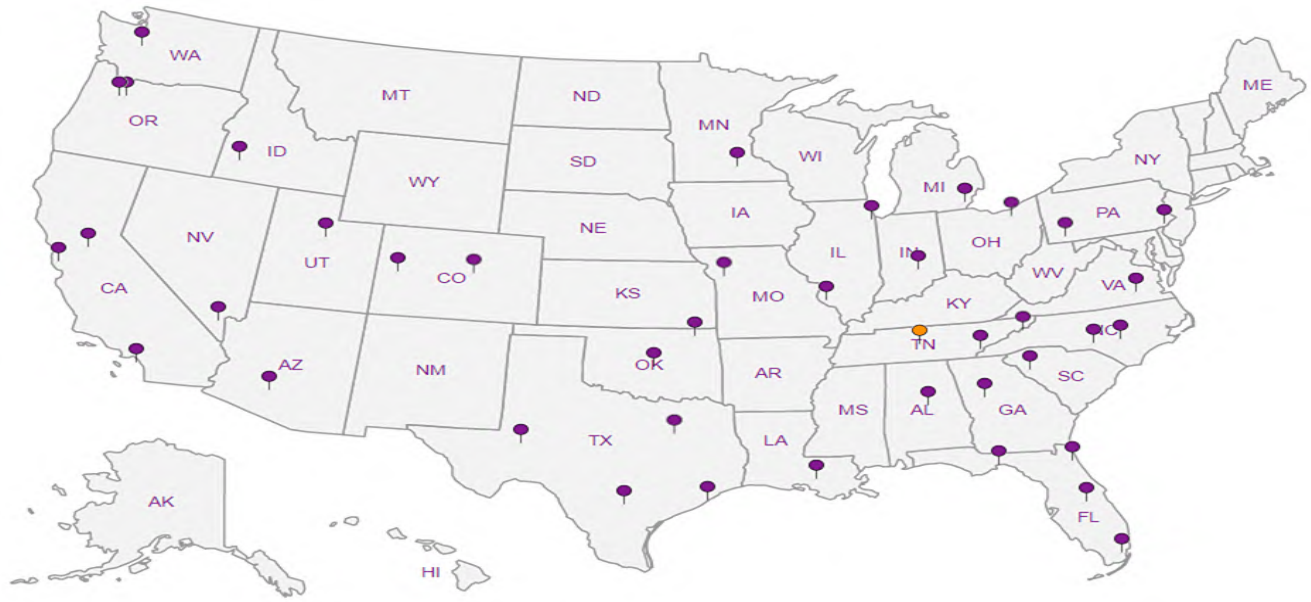
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody

ESC LABORATORIES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Kyle Littrell**

Email To: **Abaker@ltenv.com**

Project Description: **Soil Samples**

City/State Collected: **NM**

Phone: **1-970-317-1867**
Fax:

Client Project # **30-015-22229**

Lab Project #

Collected by (print): **Aaron Williamson**

Site/Facility ID # **Indian Flats Bass Federal #4**

P.O. # **012918017**

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ~~X Five Day~~
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard turn

L# 965929

T: G023

Acctnum: **XTOMTX**

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX EPA Method 8021	TPH EPA Method 8015	Chloride EPA Method 300.1	Remarks	Sample # (lab only)
SS1	Grab	SS	0.5 feet	1/25/2018	07:32	1	X	X	X		-01
SS2	Grab	SS	0.5 feet	1/25/2018	07:35	1	X	X	X		-02
SS3	Grab	SS	0.5 feet	1/25/2018	07:38	1	X	X	X		-03
SS4	Grab	SS	0.5 feet	1/25/2018	07:41	1	X	X	X		-04
SS5	Grab	SS	0.5 feet	1/25/2018	07:44	1	X	X	X		-05

N.E.G. ARW

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Also Email to: Awilliamson@ltenv.com
All times recorded in Mountain Time **(2RP-3127)**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier XSW

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: X __N
Bottles arrive intact: X __N
Correct bottles used: X __N
Sufficient volume sent: X __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	1-25-18	3:55			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.9°C °C Bottles Received: 5	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 01-26-18 Time: 1345	Hold: / Condition: NCF / OK

Analytical Report 640519

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal #4

012918017

25-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)

Released to Imaging: 9/21/2022 2:36:52 PM

25-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640519**
Indian Flats Bass Federal #4
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) 640519. 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. 640519 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-16-19 11:20	1 ft	640519-001
PH01A	S	10-16-19 11:25	2 ft	640519-002
PH01B	S	10-16-19 11:35	3 ft	640519-003
PH01C	S	10-16-19 11:40	4 ft	640519-004
PH02	S	10-16-19 11:45	1 ft	640519-005
PH02A	S	10-16-19 11:55	2 ft	640519-006
PH02B	S	10-16-19 12:00	3 ft	640519-007
PH02C	S	10-16-19 12:10	4 ft	640519-008
PH03	S	10-16-19 12:20	1 ft	640519-009
PH03B	S	10-16-19 12:25	2 ft	640519-010
PH04	S	10-17-19 09:20	1 ft	640519-011
PH04A	S	10-17-19 09:25	2 ft	640519-012
PH04B	S	10-17-19 09:35	3 ft	640519-013
PH04C	S	10-17-19 09:40	4 ft	640519-014
BH01	S	10-17-19 10:00	1 ft	640519-015
BH01A	S	10-17-19 10:15	2 ft	640519-016
BH01B	S	10-17-19 10:30	3 ft	640519-017

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal #4

Project ID: *012918017*
Work Order Number(s): *640519*

Report Date: *25-OCT-19*
Date Received: *10/21/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105076 Chloride by EPA 300
Lab Sample ID 640519-008 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 640519-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3105232 BTEX by EPA 8021B
Lab Sample ID 640519-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 640519-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017.
The Laboratory Control Sample for Toluene, 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 640519

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 012918017
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640519-001		640519-002		640519-003		640519-004		640519-005		640519-006	
	Field Id:	PH01		PH01A		PH01B		PH01C		PH02		PH02A	
	Depth:	1- ft		2- ft		3- ft		4- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-16-19 11:20		Oct-16-19 11:25		Oct-16-19 11:35		Oct-16-19 11:40		Oct-16-19 11:45		Oct-16-19 11:55	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30	
	Analyzed:	Oct-23-19 04:07		Oct-23-19 04:28		Oct-23-19 04:48		Oct-23-19 05:08		Oct-23-19 05:28		Oct-23-19 05:48	
	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	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201
Toluene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201
Ethylbenzene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201
m,p-Xylenes		<0.00402	0.00402	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00402	0.00402	<0.00402	0.00402
o-Xylene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201
Total Xylenes		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201
Total BTEX		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20	
	Analyzed:	Oct-22-19 16:21		Oct-22-19 16:26		Oct-22-19 16:41		Oct-22-19 16:46		Oct-22-19 16:51		Oct-22-19 16:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1480	4.97	1380	4.99	1780	24.8	1700	24.8	<5.00	5.00	<5.00	5.00
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-23-19 13:33		Oct-23-19 14:35		Oct-23-19 14:56		Oct-23-19 15:17		Oct-23-19 15:38		Oct-23-19 15:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9
Total GRO-DRO		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9

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 Analysis Summary 640519

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 012918017
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640519-007		640519-008		640519-009		640519-010		640519-011		640519-012	
	Field Id:	PH02B		PH02C		PH03		PH03B		PH04		PH04A	
	Depth:	3- ft		4- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-16-19 12:00		Oct-16-19 12:10		Oct-16-19 12:20		Oct-16-19 12:25		Oct-17-19 09:20		Oct-17-19 09:25	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30	
	Analyzed:	Oct-23-19 06:08		Oct-23-19 06:28		Oct-23-19 06:49		Oct-23-19 07:09		Oct-23-19 08:27		Oct-23-19 08:48	
	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	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00397	0.00397	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20	
	Analyzed:	Oct-22-19 17:01		Oct-22-19 17:06		Oct-22-19 17:21		Oct-22-19 17:26		Oct-22-19 17:41		Oct-22-19 17:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.03	5.03	<4.95	4.95	258	5.01	561	4.98	8.26	4.97	<5.05	5.05
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-23-19 16:20		Oct-23-19 16:41		Oct-23-19 17:02		Oct-23-19 17:23		Oct-23-19 18:05		Oct-23-19 18:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Total GRO-DRO		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9

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 Analysis Summary 640519

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 012918017
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	640519-013		640519-014		640519-015		640519-016		640519-017	
	Field Id:	PH04B		PH04C		BH01		BH01A		BH01B	
	Depth:	3- ft		4- ft		1- ft		2- ft		3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-17-19 09:35		Oct-17-19 09:40		Oct-17-19 10:00		Oct-17-19 10:15		Oct-17-19 10:30	
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30		Oct-22-19 15:30	
	Analyzed:	Oct-23-19 09:08		Oct-23-19 09:28		Oct-23-19 09:48		Oct-23-19 10:08		Oct-23-19 10:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
Toluene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
Ethylbenzene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
m,p-Xylenes		<0.00402	0.00402	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00403	0.00403
o-Xylene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
Total Xylenes		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
Total BTEX		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:20	
	Analyzed:	Oct-22-19 17:51		Oct-22-19 17:56		Oct-22-19 18:01		Oct-22-19 18:06		Oct-22-19 18:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.05	5.05	<5.00	5.00	<5.00	5.00	<5.00	5.00	<5.04	5.04
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-23-19 18:46		Oct-23-19 19:07		Oct-23-19 19:28		Oct-23-19 19:49		Oct-23-19 20:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Total GRO-DRO		<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Total TPH		<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9	<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 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-001	Date Collected:	10.16.19 11.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1480**	4.97	mg/kg	10.22.19 16.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 13.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 13.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 13.33	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 13.33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 13.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.23.19 13.33	
o-Terphenyl	84-15-1	110	%	70-135	10.23.19 13.33	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-001	Date Collected:	10.16.19 11.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 04.07	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 04.07	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 04.07	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 04.07	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 04.07	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 04.07	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 04.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.23.19 04.07	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.23.19 04.07	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-002	Date Collected:	10.16.19 11.25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1380**	4.99	mg/kg	10.22.19 16.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 14.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 14.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 14.35	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 14.35	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 14.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.23.19 14.35	
o-Terphenyl	84-15-1	109	%	70-135	10.23.19 14.35	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-002	Date Collected:	10.16.19 11.25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 04.28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 04.28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 04.28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 04.28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 04.28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 04.28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 04.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	10.23.19 04.28	
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.23.19 04.28	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-003	Date Collected:	10.16.19 11.35	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1780**	24.8	mg/kg	10.22.19 16.41		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 14.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 14.56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 14.56	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 14.56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 14.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.23.19 14.56	
o-Terphenyl	84-15-1	109	%	70-135	10.23.19 14.56	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-003	Date Collected:	10.16.19 11.35	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 04.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 04.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 04.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.23.19 04.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 04.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 04.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 04.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.23.19 04.48	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.23.19 04.48	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-004	Date Collected:	10.16.19 11.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1700**	24.8	mg/kg	10.22.19 16.46		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 15.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 15.17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 15.17	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 15.17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 15.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.23.19 15.17	
o-Terphenyl	84-15-1	109	%	70-135	10.23.19 15.17	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-004	Date Collected:	10.16.19 11.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.23.19 05.08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.23.19 05.08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.23.19 05.08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.23.19 05.08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.23.19 05.08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.23.19 05.08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.23.19 05.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.23.19 05.08	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.23.19 05.08	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-005	Date Collected:	10.16.19 11.45	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.22.19 16.51	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 15.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 15.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 15.38	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 15.38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 15.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 15.38	
o-Terphenyl	84-15-1	107	%	70-135	10.23.19 15.38	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-005	Date Collected:	10.16.19 11.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 05.28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 05.28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 05.28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 05.28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 05.28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 05.28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 05.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	10.23.19 05.28	
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.23.19 05.28	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-006	Date Collected:	10.16.19 11.55	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.22.19 16.56	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 15.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 15.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 15.59	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 15.59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 15.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.23.19 15.59	
o-Terphenyl	84-15-1	110	%	70-135	10.23.19 15.59	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-006	Date Collected:	10.16.19 11.55	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 05.48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 05.48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 05.48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 05.48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 05.48	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 05.48	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 05.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.23.19 05.48	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.23.19 05.48	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-007	Date Collected:	10.16.19 12.00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	10.22.19 17.01	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 16.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 16.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 16.20	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 16.20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 16.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.23.19 16.20	
o-Terphenyl	84-15-1	112	%	70-135	10.23.19 16.20	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-007	Date Collected:	10.16.19 12.00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 06.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 06.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 06.08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.23.19 06.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 06.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 06.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 06.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.23.19 06.08	
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.23.19 06.08	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-008	Date Collected:	10.16.19 12.10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	10.22.19 17.06	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 16.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 16.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 16.41	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 16.41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 16.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.23.19 16.41	
o-Terphenyl	84-15-1	109	%	70-135	10.23.19 16.41	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-008	Date Collected:	10.16.19 12.10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.23.19 06.28	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.23.19 06.28	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.23.19 06.28	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.23.19 06.28	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.23.19 06.28	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.23.19 06.28	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.23.19 06.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	10.23.19 06.28	
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.23.19 06.28	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-009	Date Collected:	10.16.19 12.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**258**	5.01	mg/kg	10.22.19 17.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 17.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 17.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 17.02	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 17.02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 17.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 17.02	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 17.02	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-009	Date Collected:	10.16.19 12.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 06.49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 06.49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 06.49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.23.19 06.49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 06.49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 06.49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 06.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.23.19 06.49	
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.23.19 06.49	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-010	Date Collected:	10.16.19 12.25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**561**	4.98	mg/kg	10.22.19 17.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 17.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 17.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 17.23	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 17.23	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 17.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.23.19 17.23	
o-Terphenyl	84-15-1	107	%	70-135	10.23.19 17.23	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-010	Date Collected:	10.16.19 12.25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.23.19 07.09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.23.19 07.09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.23.19 07.09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.23.19 07.09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.23.19 07.09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.23.19 07.09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.23.19 07.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.23.19 07.09	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.23.19 07.09	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-011	Date Collected:	10.17.19 09.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.26**	4.97	mg/kg	10.22.19 17.41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 18.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 18.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 18.05	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 18.05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 18.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.23.19 18.05	
o-Terphenyl	84-15-1	106	%	70-135	10.23.19 18.05	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-011	Date Collected:	10.17.19 09.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 08.27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 08.27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 08.27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.23.19 08.27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 08.27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 08.27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 08.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.23.19 08.27	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.23.19 08.27	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-012	Date Collected:	10.17.19 09.25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	10.22.19 17.46	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 18.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 18.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 18.25	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 18.25	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 18.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.23.19 18.25	
o-Terphenyl	84-15-1	108	%	70-135	10.23.19 18.25	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-012	Date Collected:	10.17.19 09.25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.23.19 08.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	10.23.19 08.48	
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.23.19 08.48	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-013	Date Collected:	10.17.19 09.35	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	10.22.19 17.51	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 18.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 18.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 18.46	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 18.46	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 18.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 18.46	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 18.46	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-013	Date Collected:	10.17.19 09.35	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 09.08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 09.08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 09.08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 09.08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 09.08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 09.08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 09.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.23.19 09.08	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.23.19 09.08	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-014	Date Collected:	10.17.19 09.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.22.19 17.56	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 19.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 19.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 19.07	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 19.07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 19.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.23.19 19.07	
o-Terphenyl	84-15-1	108	%	70-135	10.23.19 19.07	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH04C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-014	Date Collected:	10.17.19 09.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 09.28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 09.28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 09.28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 09.28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 09.28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 09.28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 09.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.23.19 09.28	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.23.19 09.28	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-015	Date Collected:	10.17.19 10.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.22.19 18.01	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 19.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 19.28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 19.28	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 19.28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 19.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 19.28	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 19.28	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-015	Date Collected:	10.17.19 10.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 09.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 09.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 09.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.23.19 09.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 09.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 09.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 09.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.23.19 09.48	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.23.19 09.48	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-016	Date Collected:	10.17.19 10.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.22.19 18.06	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 19.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 19.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 19.49	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 19.49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 19.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 19.49	
o-Terphenyl	84-15-1	105	%	70-135	10.23.19 19.49	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-016	Date Collected:	10.17.19 10.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.23.19 10.08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.23.19 10.08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.23.19 10.08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.23.19 10.08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.23.19 10.08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.23.19 10.08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.23.19 10.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.23.19 10.08	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.23.19 10.08	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-017	Date Collected:	10.17.19 10.30	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	10.22.19 18.11	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105281			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 20.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 20.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 20.09	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 20.09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 20.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 20.09	
o-Terphenyl	84-15-1	106	%	70-135	10.23.19 20.09	

Certificate of Analytical Results 640519

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640519-017	Date Collected:	10.17.19 10.30	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.30	Basis:	Wet Weight
Seq Number:	3105232			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.23.19 10.28	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.23.19 10.28	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.23.19 10.28	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.23.19 10.28	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.23.19 10.28	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.23.19 10.28	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.23.19 10.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.23.19 10.28	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.23.19 10.28	

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: 9/21/2022 2:36:52 PM

QC Summary 640519

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105076 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688647-1-BLK — LCS Sample Id: 7688647-1-BKS — LCSD Sample Id: 7688647-1-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	262	105	264	106	90-110	1	20	mg/kg	10.22.19 15:46	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105076 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640517-006 — MS Sample Id: 640517-006 S — MSD Sample Id: 640517-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.6	248	310	111	307	110	90-110	1	20	mg/kg	10.22.19 16:01	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105076 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640519-008 — MS Sample Id: 640519-008 S — MSD Sample Id: 640519-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.40	248	277	110	279	111	90-110	1	20	mg/kg	10.22.19 17:11	X

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105281 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688681-1-BLK — LCS Sample Id: 7688681-1-BKS — LCSD Sample Id: 7688681-1-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	1150	115	1160	116	70-135	1	20	mg/kg	10.23.19 12:51	
Diesel Range Organics (DRO)	<15.0	1000	1080	108	1110	111	70-135	3	20	mg/kg	10.23.19 12:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		116		119		70-135	%	10.23.19 12:51
o-Terphenyl	112		116		120		70-135	%	10.23.19 12:51

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105281 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688681-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.23.19 12:30	

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 640519

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3105281 | Matrix: Soil | Date Prep: 10.22.19
Parent Sample Id: 640519-001 | MS Sample Id: 640519-001 S | MSD Sample Id: 640519-001 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	1140	114	1130	113	70-135	1	20	mg/kg	10.23.19 13:53	
Diesel Range Organics (DRO)	<15.0	999	1090	109	1070	107	70-135	2	20	mg/kg	10.23.19 13:53	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		121		70-135	%	10.23.19 13:53
o-Terphenyl	106		105		70-135	%	10.23.19 13:53

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3105232 | Matrix: Solid | Date Prep: 10.22.19
MB Sample Id: 7688673-1-BLK | LCS Sample Id: 7688673-1-BKS | LCSD Sample Id: 7688673-1-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	0.126	126	0.122	122	70-130	3	35	mg/kg	10.23.19 02:08	
Toluene	<0.00200	0.100	0.113	113	0.112	112	70-130	1	35	mg/kg	10.23.19 02:08	
Ethylbenzene	<0.00200	0.100	0.113	113	0.110	110	70-130	3	35	mg/kg	10.23.19 02:08	
m,p-Xylenes	<0.00400	0.200	0.229	115	0.223	112	70-130	3	35	mg/kg	10.23.19 02:08	
o-Xylene	<0.00200	0.100	0.109	109	0.108	108	70-130	1	35	mg/kg	10.23.19 02:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		108		70-130	%	10.23.19 02:08
4-Bromofluorobenzene	100		107		113		70-130	%	10.23.19 02:08

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3105232 | Matrix: Soil | Date Prep: 10.22.19
Parent Sample Id: 640519-001 | MS Sample Id: 640519-001 S | MSD Sample Id: 640519-001 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	0.0757	76	0.0981	97	70-130	26	35	mg/kg	10.23.19 02:48	
Toluene	<0.00200	0.0998	0.0670	67	0.0875	87	70-130	27	35	mg/kg	10.23.19 02:48	X
Ethylbenzene	<0.00200	0.0998	0.0642	64	0.0850	84	70-130	28	35	mg/kg	10.23.19 02:48	X
m,p-Xylenes	<0.00399	0.200	0.127	64	0.172	86	70-130	30	35	mg/kg	10.23.19 02:48	X
o-Xylene	<0.00200	0.0998	0.0626	63	0.0811	80	70-130	26	35	mg/kg	10.23.19 02:48	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		101		70-130	%	10.23.19 02:48
4-Bromofluorobenzene	107		109		70-130	%	10.23.19 02:48

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 174 of 744

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: 640519

Page 1 of 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #4	Turn Around	
Project Number:	2RP-3127	Routine	X
P.O. Number:	01291801 7	Rush:	
Sampler's Name:	Spencer Lo	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:	17	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH01	S	10/16/2017	1120	1	1	X	X	X
PH01A	S	10/16/2017	1125	2	1	X	X	X
PH01B	S	10/16/2017	1135	3	1	X	X	X
PH01C	S	10/16/2017	1140	4	1	X	X	X
PH02	S	10/16/2017	1145	1	1	X	X	X
PH02A	S	10/16/2017	1155	2	1	X	X	X
PH02B	S	10/16/2017	1200	3	1	X	X	X
PH02C	S	10/16/2017	1210	4	1	X	X	X
PH03	S	10/16/2017	1220	1	1	X	X	X
PH03B	S	10/16/2017	1225	2	1	X	X	X

ANALYSIS REQUEST

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

ice: 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
ervice. 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
enco. 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
Spencer Lo	Anna Byers	10/21/19 0845	2		10/21/19 09:10
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 45 of 51
Released to Imaging: 9/21/2022 2:36:52 PM

Page 175 of 744

Chain of Custody

Work Order No: 440519

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 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #4	Turn Around	
Project Number:	2RP-3127	Routine	X
P.O. Number:	0R2918017	Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
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)
PH04	S	10/17/2019	920	1	1	X	X	X
PH04A	S	10/17/2019	925	2	1	X	X	X
PH04B	S	10/17/2019	935	3	1	X	X	X
PH04C	S	10/17/2019	940	4	1	X	X	X
BH01	S	10/17/2019	1000	1	1	X	X	X
BH01A	S	10/17/2019	1015	2	1	X	X	X
BH01B	S	10/17/2019	1030	3	1	X	X	X

ANALYSIS REQUEST

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
	Anna Byers	10/21/19 0945	2 Anna Byers	Courtney	10/21/19 0951
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Released to Imaging: 9/21/2022 2:36:52 PM
Final 1.000
Page 46 of 51

Inter-Office Shipment

IOS Number **50487**

Date/Time: 10/21/19 13:11
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776773967529

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
640519-001	S	PH01	10/16/19 11:20	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-001	S	PH01	10/16/19 11:20	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-001	S	PH01	10/16/19 11:20	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-002	S	PH01A	10/16/19 11:25	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-002	S	PH01A	10/16/19 11:25	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-002	S	PH01A	10/16/19 11:25	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-003	S	PH01B	10/16/19 11:35	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-003	S	PH01B	10/16/19 11:35	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-003	S	PH01B	10/16/19 11:35	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-004	S	PH01C	10/16/19 11:40	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-004	S	PH01C	10/16/19 11:40	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-004	S	PH01C	10/16/19 11:40	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-005	S	PH02	10/16/19 11:45	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-005	S	PH02	10/16/19 11:45	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-005	S	PH02	10/16/19 11:45	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-006	S	PH02A	10/16/19 11:55	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-006	S	PH02A	10/16/19 11:55	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-006	S	PH02A	10/16/19 11:55	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-007	S	PH02B	10/16/19 12:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-007	S	PH02B	10/16/19 12:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-007	S	PH02B	10/16/19 12:00	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-008	S	PH02C	10/16/19 12:10	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-008	S	PH02C	10/16/19 12:10	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-008	S	PH02C	10/16/19 12:10	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-009	S	PH03	10/16/19 12:20	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	

Inter-Office Shipment

IOS Number **50487**

Date/Time: 10/21/19 13:11
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.: 776773967529
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
640519-009	S	PH03	10/16/19 12:20	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-009	S	PH03	10/16/19 12:20	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-010	S	PH03B	10/16/19 12:25	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-010	S	PH03B	10/16/19 12:25	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640519-010	S	PH03B	10/16/19 12:25	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640519-011	S	PH04	10/17/19 09:20	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-011	S	PH04	10/17/19 09:20	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640519-011	S	PH04	10/17/19 09:20	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640519-012	S	PH04A	10/17/19 09:25	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-012	S	PH04A	10/17/19 09:25	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640519-012	S	PH04A	10/17/19 09:25	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640519-013	S	PH04B	10/17/19 09:35	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640519-013	S	PH04B	10/17/19 09:35	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-013	S	PH04B	10/17/19 09:35	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640519-014	S	PH04C	10/17/19 09:40	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640519-014	S	PH04C	10/17/19 09:40	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-014	S	PH04C	10/17/19 09:40	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640519-015	S	BH01	10/17/19 10:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-015	S	BH01	10/17/19 10:00	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640519-015	S	BH01	10/17/19 10:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640519-016	S	BH01A	10/17/19 10:15	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-016	S	BH01A	10/17/19 10:15	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640519-016	S	BH01A	10/17/19 10:15	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640519-017	S	BH01B	10/17/19 10:30	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640519-017	S	BH01B	10/17/19 10:30	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number **50487**

Date/Time: 10/21/19 13:11
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776773967529

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
640519-017	S	BH01B	10/17/19 10:30	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 10/21/2019

Received By: Brianna Teel

Date Received: 10/22/2019 11:10

Cooler Temperature: 2.3

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 50487

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 10/21/2019 01:11 PM

Received By: Brianna Teel **Date Received:** 10/22/2019 11:10 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: 10/22/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/21/2019 09:10:00 AM

Work Order #: 640519

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?	**Yes**	
#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 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: 10/21/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

ANALYTICAL REPORT

January 08, 2018

XTO Energy- Delaware Division

Sample Delivery Group:	L960365
Samples Received:	12/29/2017
Project Number:	30-015-24968
Description:	Confirmation Soil Samples
Site:	INDIAN FLATS BASS FEDERAL SWD
Report To:	Kyle Littrell
	6401 N Holiday Hill Rd
	Suite 200
	Midland, TX 79707

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Released to Imaging: 9/21/2022 2:36:52 PM

Cp: Cover Page 1
Tc: Table of Contents 2
Ss: Sample Summary 3
Cn: Case Narrative 4
Sr: Sample Results 5
SS-1 L960365-01 5
SS-2 L960365-02 6
SS-3 L960365-03 7
SS-4 L960365-04 8
SS-5 L960365-05 9
Qc: Quality Control Summary 10
Total Solids by Method 2540 G-2011 10
Wet Chemistry by Method 300.0 12
Volatile Organic Compounds (GC) by Method 8015/8021 14
Semi-Volatile Organic Compounds (GC) by Method 8015 16
Gl: Glossary of Terms 17
Al: Accreditations & Locations 18
Sc: Sample Chain of Custody 19

SS-1 L960365-01 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 09:40 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	5	12/29/17 14:44	12/29/17 21:47	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058883	1	12/29/17 15:55	01/02/18 12:32	RAS
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1059044	10	01/03/18 06:39	01/03/18 19:51	MTJ

SS-2 L960365-02 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 09:43 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	1	12/29/17 14:44	12/29/17 21:55	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058883	1	12/29/17 15:55	01/02/18 12:56	RAS
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1059044	2	01/03/18 06:39	01/03/18 17:35	MTJ

SS-3 L960365-03 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 09:45 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059209	1	01/04/18 15:46	01/04/18 15:55	KDW
Wet Chemistry by Method 300.0	WG1058430	1	12/29/17 14:44	12/29/17 22:04	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058883	1	12/29/17 15:55	01/02/18 13:19	RAS
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1059044	2	01/03/18 06:39	01/03/18 17:19	MTJ

SS-4 L960365-04 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 09:48 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059209	1	01/04/18 15:46	01/04/18 15:55	KDW
Wet Chemistry by Method 300.0	WG1058430	5	12/29/17 14:44	12/29/17 22:12	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058883	1	12/29/17 15:55	01/02/18 13:42	RAS
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1059044	2	01/03/18 06:39	01/03/18 18:05	MTJ

SS-5 L960365-05 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 09:51 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059209	1	01/04/18 15:46	01/04/18 15:55	KDW
Wet Chemistry by Method 300.0	WG1058590	10	12/30/17 11:58	12/30/17 13:18	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058883	1	12/29/17 15:55	01/02/18 14:05	RAS
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1059044	2	01/03/18 06:39	01/03/18 18:20	MTJ

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	1570		52.5	5	12/29/2017 21:47	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000525	1	01/02/2018 12:32	WG1058883
Toluene	ND		0.00525	1	01/02/2018 12:32	WG1058883
Ethylbenzene	ND		0.000525	1	01/02/2018 12:32	WG1058883
Total Xylene	ND		0.00157	1	01/02/2018 12:32	WG1058883
TPH (GC/FID) Low Fraction	ND		0.105	1	01/02/2018 12:32	WG1058883
(S) a,a,a-Trifluorotoluene(FID)	*95.1*		*77.0-120*		*01/02/2018 12:32*	WG1058883
(S) a,a,a-Trifluorotoluene(PID)	*95.6*		*75.0-128*		*01/02/2018 12:32*	WG1058883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	81.7		42.0	10	01/03/2018 19:51	WG1059044
C28-C40 Oil Range	121		42.0	10	01/03/2018 19:51	WG1059044
(S) o-Terphenyl	*83.5*		*18.0-148*		*01/03/2018 19:51*	WG1059044

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	270		10.5	1	12/29/2017 21:55	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.000954		0.000524	1	01/02/2018 12:56	WG1058883
Toluene	ND		0.00524	1	01/02/2018 12:56	WG1058883
Ethylbenzene	ND		0.000524	1	01/02/2018 12:56	WG1058883
Total Xylene	ND		0.00157	1	01/02/2018 12:56	WG1058883
TPH (GC/FID) Low Fraction	ND		0.105	1	01/02/2018 12:56	WG1058883
(S) a,a,a-Trifluorotoluene(FID)	*97.7*		*77.0-120*		*01/02/2018 12:56*	WG1058883
(S) a,a,a-Trifluorotoluene(PID)	*98.1*		*75.0-128*		*01/02/2018 12:56*	WG1058883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	28.4		8.39	2	01/03/2018 17:35	WG1059044
C28-C40 Oil Range	33.0		8.39	2	01/03/2018 17:35	WG1059044
(S) o-Terphenyl	*79.2*		*18.0-148*		*01/03/2018 17:35*	WG1059044

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	01/04/2018 15:55	WG1059209

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	104		10.7	1	12/29/2017 22:04	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000535	1	01/02/2018 13:19	WG1058883
Toluene	ND		0.00535	1	01/02/2018 13:19	WG1058883
Ethylbenzene	ND		0.000535	1	01/02/2018 13:19	WG1058883
Total Xylene	ND		0.00161	1	01/02/2018 13:19	WG1058883
TPH (GC/FID) Low Fraction	ND		0.107	1	01/02/2018 13:19	WG1058883
(S) a,a,a-Trifluorotoluene(FID)	*97.5*		*77.0-120*		*01/02/2018 13:19*	WG1058883
(S) a,a,a-Trifluorotoluene(PID)	*97.3*		*75.0-128*		*01/02/2018 13:19*	WG1058883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	40.4		8.56	2	01/03/2018 17:19	WG1059044
C28-C40 Oil Range	41.2		8.56	2	01/03/2018 17:19	WG1059044
(S) o-Terphenyl	*78.6*		*18.0-148*		*01/03/2018 17:19*	WG1059044

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.1		1	01/04/2018 15:55	WG1059209

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	1620		53.7	5	12/29/2017 22:12	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.000669		0.000537	1	01/02/2018 13:42	WG1058883
Toluene	ND		0.00537	1	01/02/2018 13:42	WG1058883
Ethylbenzene	ND		0.000537	1	01/02/2018 13:42	WG1058883
Total Xylene	ND		0.00161	1	01/02/2018 13:42	WG1058883
TPH (GC/FID) Low Fraction	ND		0.107	1	01/02/2018 13:42	WG1058883
(S) a,a,a-Trifluorotoluene(FID)	*96.9*		*77.0-120*		*01/02/2018 13:42*	WG1058883
(S) a,a,a-Trifluorotoluene(PID)	*96.9*		*75.0-128*		*01/02/2018 13:42*	WG1058883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	42.4		8.59	2	01/03/2018 18:05	WG1059044
C28-C40 Oil Range	43.8		8.59	2	01/03/2018 18:05	WG1059044
(S) o-Terphenyl	*69.6*		*18.0-148*		*01/03/2018 18:05*	WG1059044

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	01/04/2018 15:55	WG1059209

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	4450		106	10	12/30/2017 13:18	WG1058590

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000528	1	01/02/2018 14:05	WG1058883
Toluene	ND		0.00528	1	01/02/2018 14:05	WG1058883
Ethylbenzene	ND		0.000528	1	01/02/2018 14:05	WG1058883
Total Xylene	ND		0.00158	1	01/02/2018 14:05	WG1058883
TPH (GC/FID) Low Fraction	ND		0.106	1	01/02/2018 14:05	WG1058883
(S) a,a,a-Trifluorotoluene(FID)	*97.2*		*77.0-120*		*01/02/2018 14:05*	WG1058883
(S) a,a,a-Trifluorotoluene(PID)	*96.6*		*75.0-128*		*01/02/2018 14:05*	WG1058883

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	101		8.44	2	01/03/2018 18:20	WG1059044
C28-C40 Oil Range	65.3		8.44	2	01/03/2018 18:20	WG1059044
(S) o-Terphenyl	*67.2*		*18.0-148*		*01/03/2018 18:20*	WG1059044

Method Blank (MB)

(MB) R3277594-1 01/04/18 16:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.001			

L960364-02 Original Sample (OS) • Duplicate (DUP)

(OS) L960364-02 01/04/18 16:10 • (DUP) R3277594-3 01/04/18 16:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	92.6	92.8	1	0		5

Laboratory Control Sample (LCS)

(LCS) R3277594-2 01/04/18 16:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85-115	

Received by OCD: 5/13/2020 2:22:43 PM

Method Blank (MB)

(MB) R3277592-1 01/04/18 15:55

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.001			

L960365-03 Original Sample (OS) • Duplicate (DUP)

(OS) L960365-03 01/04/18 15:55 • (DUP) R3277592-3 01/04/18 15:55

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.4	94.6	1	1		5

Laboratory Control Sample (LCS)

(LCS) R3277592-2 01/04/18 15:55

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Released to Imaging: 9/21/2022 2:36:52 PM

Received by OCD: 5/13/2020 2:22:43 PM

Method Blank (MB)

(MB) R3276745-1 12/29/17 15:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L960340-01 Original Sample (OS) • Duplicate (DUP)

(OS) L960340-01 12/29/17 18:22 • (DUP) R3276745-4 12/29/17 18:31

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4060	3900	10	3.99		20

L960364-01 Original Sample (OS) • Duplicate (DUP)

(OS) L960364-01 12/29/17 20:30 • (DUP) R3276745-7 12/29/17 20:38

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	114	85.5	1	28.4	J3	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3276745-2 12/29/17 15:46 • (LCSD) R3276745-3 12/29/17 15:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	214	215	107	107	90-110			0.543	20

Released to Imaging: 9/21/2022 2:36:52 PM

Method Blank (MB)

(MB) R3277056-1 12/30/17 12:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L960365-05 Original Sample (OS) • Duplicate (DUP)

(OS) L960365-05 12/30/17 13:18 • (DUP) R3277056-4 12/30/17 13:26

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4450	4810	10	7.67		20

L960372-03 Original Sample (OS) • Duplicate (DUP)

(OS) L960372-03 12/30/17 15:34 • (DUP) R3277056-7 12/30/17 15:43

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5580	6230	10	10.9		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277056-2 12/30/17 12:44 • (LCSD) R3277056-3 12/30/17 12:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	211	211	105	106	90-110			0.327	20

L960367-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L960367-06 12/30/17 14:34 • (MS) R3277056-5 12/30/17 14:43 • (MSD) R3277056-6 12/30/17 14:52

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	536	80.2	634	611	103	98.9	1	80-120			3.77	20

Method Blank (MB)

(MB) R3277472-5 01/02/18 11:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*102*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277472-1 01/02/18 09:49 • (LCSD) R3277472-2 01/02/18 10:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0520	0.0518	104	104	71.0-121			0.354	20
Toluene	0.0500	0.0531	0.0525	106	105	72.0-120			1.28	20
Ethylbenzene	0.0500	0.0557	0.0549	111	110	76.0-121			1.46	20
Total Xylene	0.150	0.161	0.158	107	106	75.0-124			1.75	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*101*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*101*	*101*	*75.0-128*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277472-3 01/02/18 10:36 • (LCSD) R3277472-4 01/02/18 10:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.18	5.13	94.2	93.3	70.0-136			0.961	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*101*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*110*	*110*	*75.0-128*				

Received by OCD: 5/13/2020 2:22:43 PM

L960367-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L960367-08 01/02/18 17:10 • (MS) R3277472-6 01/02/18 19:52 • (MSD) R3277472-7 01/02/18 20:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0527	0.000969	0.0219	0.0249	39.8	45.4	1	10.0-146			12.7	29
Toluene	0.0527	ND	0.0178	0.0197	31.8	35.3	1	10.0-143			9.97	30
Ethylbenzene	0.0527	ND	0.0133	0.0143	24.7	26.6	1	10.0-147			7.34	31
Total Xylene	0.158	ND	0.0368	0.0392	22.9	24.4	1	10.0-149	J6	J6	6.38	30
(S) a,a,a-Trifluorotoluene(FID)					*95.1*	*95.2*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*95.7*	*96.5*		*75.0-128*				

L960367-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L960367-08 01/02/18 17:10 • (MS) R3277472-8 01/02/18 20:39 • (MSD) R3277472-9 01/02/18 21:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.80	ND	2.27	3.27	37.7	55.0	1	10.0-147		J3	36.1	30
(S) a,a,a-Trifluorotoluene(FID)					*94.1*	*93.0*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*98.9*	*100*		*75.0-128*				

Released to Imaging: 9/21/2022 2:36:52 PM

Method Blank (MB)

(MB) R3277335-1 01/03/18 16:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*62.9*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277335-2 01/03/18 16:33 • (LCSD) R3277335-3 01/03/18 16:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	39.6	38.5	65.9	64.2	50.0-150			2.62	20
(S) o-Terphenyl				*77.7*	*77.6*	*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

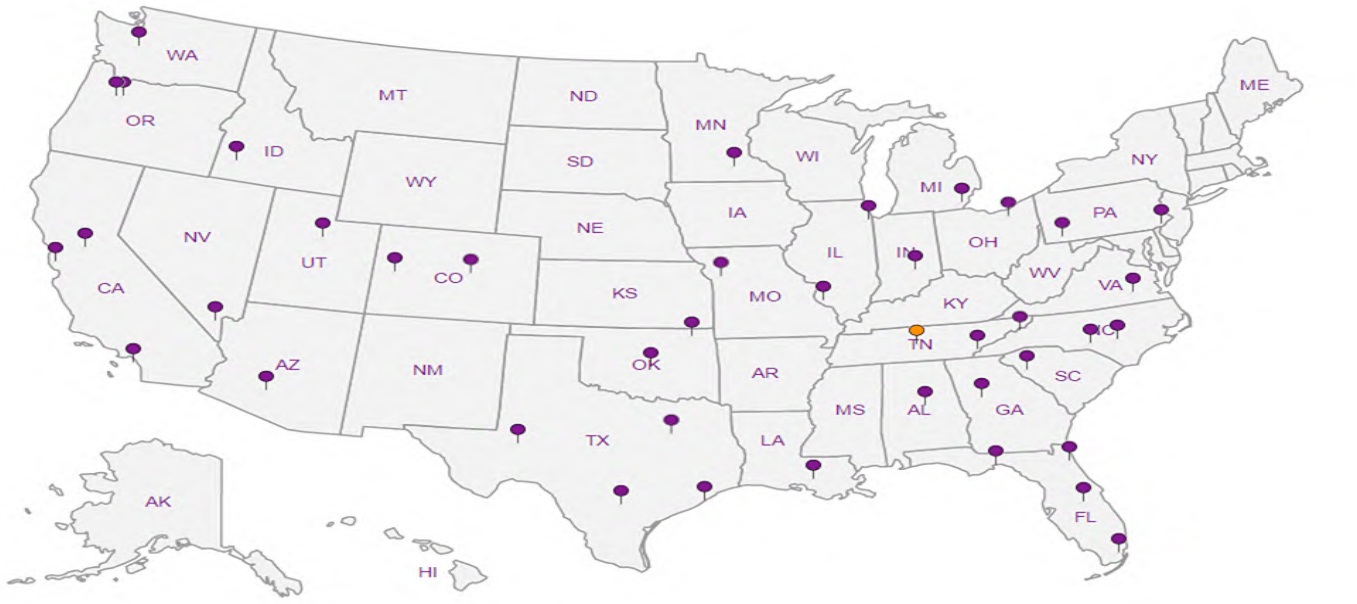
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



LTE

Billing Information: XTO

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABS SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 960365

D135

Report to: Kyle Littrell

Email To: Kyle_Littrell@xtoenergy.com, Abaker@LTenv.com

Project Description: Confirmation Soil Samples

City/State Collected: NM

Phone: 970-317-1867 Fax:

Client Project # 30-015-24968

Lab Project #

Collected by (print): Aaron Williamson

Site/Facility ID # (2RP-3129) Indian Flats Boss Federal SWD

P.O. # 012917061

Collected by (signature):

Immediately Packed on Ice N ___ Y J

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Acctnum: XTORNM

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX EPA Method 8021	TPH EPA Method 8015	Chloride EPA Method 300.1	Remarks	Sample # (lab only)
SS-1	Grab	SS	6"	12/27/17	09:40	1	✓	✓	✓		-01
SS-2	Grab	SS	6"	12/27/17	09:43	1	✓	✓	✓		-02
SS-3	Grab	SS	6"	12/27/17	09:45	1	✓	✓	✓		-03
SS-4	Grab	SS	6"	12/27/17	09:48	1	✓	✓	✓		-04
SS-5	Grab	SS	6"	12/27/17	09:51	1	✓	✓	✓		-05
N.F.E. ARW											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via: ___ UPS ___ FedEx ___ Courier ___

Tracking # 7384 4291 4809

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	12/28/17	02:10	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: 6.1 °C Bottles Received: 5

If preservation required by Login: Date/Time

Date: 12/29/17 Time: 08:45

Hold:

Condition: NCF / OK

Analytical Report 640517

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal SWD

2RP-3129

24-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)

Released to Imaging: 9/21/2022 2:36:52 PM

24-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640517**
Indian Flats Bass Federal SWD
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) 640517. 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. 640517 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-16-19 14:45	1 ft	640517-001
PH01A	S	10-16-19 14:55	2 ft	640517-002
PH01B	S	10-16-19 15:00	3 ft	640517-003
PH01C	S	10-16-19 15:10	4 ft	640517-004
PH01D	S	10-16-19 15:15	5 ft	640517-005
PH02	S	10-16-19 15:30	1 ft	640517-006
PH02A	S	10-16-19 15:40	2 ft	640517-007
PH02B	S	10-16-19 15:45	3 ft	640517-008
PH02C	S	10-16-19 15:50	4 ft	640517-009

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal SWD

Project ID: *2RP-3129*
Work Order Number(s): *640517*

Report Date: *24-OCT-19*
Date Received: *10/21/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105076 Chloride by EPA 300
Lab Sample ID 640519-008 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 640517-006, -007, -008.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3105189 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 640517

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal SWD

Project Id: 2RP-3129
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 24-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640517-001		640517-002		640517-003		640517-004		640517-005		640517-006	
	Field Id:	PH01		PH01A		PH01B		PH01C		PH01D		PH02	
	Depth:	1- ft		2- ft		3- ft		4- ft		5- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-16-19 14:45		Oct-16-19 14:55		Oct-16-19 15:00		Oct-16-19 15:10		Oct-16-19 15:15		Oct-16-19 15:30	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-22-19 16:45		Oct-22-19 16:45		Oct-22-19 16:45		Oct-22-19 16:45		Oct-22-19 16:45		Oct-22-19 16:45	
	Analyzed:	Oct-23-19 07:07		Oct-23-19 07:28		Oct-23-19 07:48		Oct-23-19 08:08		Oct-23-19 08:28		Oct-23-19 08:48	
	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	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00402	0.00402	<0.00400	0.00400	<0.00397	0.00397	<0.00399	0.00399
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-22-19 13:05		Oct-22-19 13:05		Oct-22-19 13:05		Oct-22-19 13:05		Oct-22-19 13:05		Oct-22-19 13:20	
	Analyzed:	Oct-22-19 16:27		Oct-22-19 16:33		Oct-22-19 16:56		Oct-22-19 17:02		Oct-22-19 17:08		Oct-22-19 15:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		293	5.00	447	5.04	354	5.05	957	5.02	777	4.96	33.6	4.96
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-22-19 22:08		Oct-22-19 23:11		Oct-22-19 23:32		Oct-22-19 23:53		Oct-23-19 00:13		Oct-23-19 00:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0
Total GRO-DRO		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.0	50.0
Total TPH		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<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

Certificate of Analysis Summary 640517

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal SWD

Project Id: 2RP-3129
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 24-OCT-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	640517-007		640517-008		640517-009				
	Field Id:	PH02A		PH02B		PH02C				
	Depth:	2- ft		3- ft		4- ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Oct-16-19 15:40		Oct-16-19 15:45		Oct-16-19 15:50				
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-22-19 16:45		Oct-22-19 16:45		Oct-22-19 16:45				
	Analyzed:	Oct-23-19 09:08		Oct-23-19 09:28		Oct-23-19 09:48				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201			
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201			
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201			
m,p-Xylenes		<0.00399	0.00399	<0.00403	0.00403	<0.00402	0.00402			
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201			
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201			
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201			
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-22-19 13:20		Oct-22-19 13:20		Oct-22-19 13:05				
	Analyzed:	Oct-22-19 16:11		Oct-22-19 16:16		Oct-22-19 16:50				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		15.9	5.00	11.3	4.98	775	4.99			
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00				
	Analyzed:	Oct-23-19 00:55		Oct-23-19 01:16		Oct-23-19 01:36				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9			
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9			
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9	<49.9	49.9			
Total GRO-DRO		<49.8	49.8	<49.9	49.9	<49.9	49.9			
Total TPH		<49.8	49.8	<49.9	49.9	<49.9	49.9			

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 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-001	Date Collected:	10.16.19 14.45	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.05	Basis:	Wet Weight
Seq Number:	3105067			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**293**	5.00	mg/kg	10.22.19 16.27		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.22.19 22.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.22.19 22.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.22.19 22.08	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.22.19 22.08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.22.19 22.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.22.19 22.08	
o-Terphenyl	84-15-1	105	%	70-135	10.22.19 22.08	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-001	Date Collected:	10.16.19 14.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.23.19 07.07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.23.19 07.07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.23.19 07.07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.23.19 07.07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.23.19 07.07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.23.19 07.07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.23.19 07.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	84	%	70-130	10.23.19 07.07	
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.23.19 07.07	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-002	Date Collected:	10.16.19 14.55	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.05	Basis:	Wet Weight
Seq Number:	3105067			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**447**	5.04	mg/kg	10.22.19 16.33		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.22.19 23.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.22.19 23.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.22.19 23.11	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.22.19 23.11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.22.19 23.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.22.19 23.11	
o-Terphenyl	84-15-1	102	%	70-135	10.22.19 23.11	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-002	Date Collected:	10.16.19 14.55	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 07.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 07.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 07.28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.23.19 07.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 07.28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 07.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 07.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.23.19 07.28	
1,4-Difluorobenzene	540-36-3	88	%	70-130	10.23.19 07.28	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-003	Date Collected:	10.16.19 15.00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.05	Basis:	Wet Weight
Seq Number:	3105067			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**354**	5.05	mg/kg	10.22.19 16.56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.22.19 23.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.22.19 23.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.22.19 23.32	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.22.19 23.32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.22.19 23.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.22.19 23.32	
o-Terphenyl	84-15-1	104	%	70-135	10.22.19 23.32	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-003	Date Collected:	10.16.19 15.00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 07.48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 07.48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 07.48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 07.48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 07.48	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 07.48	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 07.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	86	%	70-130	10.23.19 07.48	
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.23.19 07.48	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-004	Date Collected:	10.16.19 15.10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.05	Basis:	Wet Weight
Seq Number:	3105067			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**957**	5.02	mg/kg	10.22.19 17.02		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.22.19 23.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.22.19 23.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.22.19 23.53	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.22.19 23.53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.22.19 23.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.22.19 23.53	
o-Terphenyl	84-15-1	106	%	70-135	10.22.19 23.53	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-004	Date Collected:	10.16.19 15.10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 08.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 08.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 08.08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.23.19 08.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 08.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 08.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 08.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	88	%	70-130	10.23.19 08.08	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.23.19 08.08	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01D**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-005	Date Collected:	10.16.19 15.15	Sample Depth:	5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.05	Basis:	Wet Weight
Seq Number:	3105067			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**777**	4.96	mg/kg	10.22.19 17.08		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 00.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 00.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 00.13	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 00.13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 00.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.23.19 00.13	
o-Terphenyl	84-15-1	109	%	70-135	10.23.19 00.13	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01D**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-005	Date Collected:	10.16.19 15.15	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.23.19 08.28	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.23.19 08.28	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.23.19 08.28	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.23.19 08.28	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.23.19 08.28	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.23.19 08.28	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.23.19 08.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	88	%	70-130	10.23.19 08.28	
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.23.19 08.28	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-006	Date Collected:	10.16.19 15.30	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**33.6**	4.96	mg/kg	10.22.19 15.56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 00.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 00.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 00.34	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 00.34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 00.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.23.19 00.34	
o-Terphenyl	84-15-1	111	%	70-135	10.23.19 00.34	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-006	Date Collected:	10.16.19 15.30	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.23.19 08.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 08.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	70-130	10.23.19 08.48	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.23.19 08.48	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-007	Date Collected:	10.16.19 15.40	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.9**	5.00	mg/kg	10.22.19 16.11		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 00.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 00.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 00.55	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 00.55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 00.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 00.55	
o-Terphenyl	84-15-1	105	%	70-135	10.23.19 00.55	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-007	Date Collected:	10.16.19 15.40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.23.19 09.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.23.19 09.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.23.19 09.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.23.19 09.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.23.19 09.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.23.19 09.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.23.19 09.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.23.19 09.08	
1,4-Difluorobenzene	540-36-3	88	%	70-130	10.23.19 09.08	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-008	Date Collected:	10.16.19 15.45	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.20	Basis:	Wet Weight
Seq Number:	3105076			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.3**	4.98	mg/kg	10.22.19 16.16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 01.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 01.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 01.16	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 01.16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 01.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.23.19 01.16	
o-Terphenyl	84-15-1	110	%	70-135	10.23.19 01.16	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-008	Date Collected:	10.16.19 15.45	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.23.19 09.28	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.23.19 09.28	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.23.19 09.28	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.23.19 09.28	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.23.19 09.28	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.23.19 09.28	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.23.19 09.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.23.19 09.28	
1,4-Difluorobenzene	540-36-3	87	%	70-130	10.23.19 09.28	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-009	Date Collected:	10.16.19 15.50	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 13.05	Basis:	Wet Weight
Seq Number:	3105067			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**775**	4.99	mg/kg	10.22.19 16.50		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 01.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 01.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 01.36	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 01.36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 01.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.23.19 01.36	
o-Terphenyl	84-15-1	110	%	70-135	10.23.19 01.36	

Certificate of Analytical Results 640517

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640517-009	Date Collected:	10.16.19 15.50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 16.45	Basis:	Wet Weight
Seq Number:	3105189			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.23.19 09.48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.23.19 09.48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.23.19 09.48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.23.19 09.48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.23.19 09.48	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.23.19 09.48	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.23.19 09.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.23.19 09.48	
1,4-Difluorobenzene	540-36-3	87	%	70-130	10.23.19 09.48	

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: 9/21/2022 2:36:52 PM

QC Summary 640517

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105067 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688639-1-BLK LCS Sample Id: 7688639-1-BKS LCSD Sample Id: 7688639-1-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	248	99	251	100	90-110	1	20	mg/kg	10.22.19 13:22	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105076 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688647-1-BLK LCS Sample Id: 7688647-1-BKS LCSD Sample Id: 7688647-1-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	262	105	264	106	90-110	1	20	mg/kg	10.22.19 15:46	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105067 Matrix: Soil Date Prep: 10.22.19
Parent Sample Id: 640597-009 MS Sample Id: 640597-009 S MSD Sample Id: 640597-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	307	248	544	96	544	96	90-110	0	20	mg/kg	10.22.19 13:39	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105067 Matrix: Soil Date Prep: 10.22.19
Parent Sample Id: 640597-041 MS Sample Id: 640597-041 S MSD Sample Id: 640597-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	96.8	252	349	100	350	100	90-110	0	20	mg/kg	10.22.19 16:15	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105076 Matrix: Soil Date Prep: 10.22.19
Parent Sample Id: 640517-006 MS Sample Id: 640517-006 S MSD Sample Id: 640517-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.6	248	310	111	307	110	90-110	1	20	mg/kg	10.22.19 16:01	X

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

QC Summary 640517

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105076 Matrix: Soil Date Prep: 10.22.19
Parent Sample Id: 640519-008 MS Sample Id: 640519-008 S MSD Sample Id: 640519-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.40	248	277	110	279	111	90-110	1	20	mg/kg	10.22.19 17:11	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105130 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688682-1-BLK LCS Sample Id: 7688682-1-BKS LCSD Sample Id: 7688682-1-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	1130	113	1060	106	70-135	6	20	mg/kg	10.22.19 21:27	
Diesel Range Organics (DRO)	<15.0	1000	1150	115	1100	110	70-135	4	20	mg/kg	10.22.19 21:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		117		120		70-135	%	10.22.19 21:27
o-Terphenyl	115		122		117		70-135	%	10.22.19 21:27

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105130 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688682-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.22.19 21:06	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105130 Matrix: Soil Date Prep: 10.22.19
Parent Sample Id: 640517-001 MS Sample Id: 640517-001 S MSD Sample Id: 640517-001 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)	17.5	996	1080	107	1080	106	70-135	0	20	mg/kg	10.22.19 22:29	
Diesel Range Organics (DRO)	<14.9	996	1100	110	1090	109	70-135	1	20	mg/kg	10.22.19 22:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		107		70-135	%	10.22.19 22:29
o-Terphenyl	107		104		70-135	%	10.22.19 22:29

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 640517

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3105189 Matrix: Solid Date Prep: 10.22.19

MB Sample Id: 7688675-1-BLK LCS Sample Id: 7688675-1-BKS LCSD Sample Id: 7688675-1-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	0.0920	92	0.0999	100	70-130	8	35	mg/kg	10.23.19 05:08	
Toluene	<0.00200	0.100	0.0928	93	0.103	103	70-130	10	35	mg/kg	10.23.19 05:08	
Ethylbenzene	<0.00200	0.100	0.103	103	0.115	115	70-130	11	35	mg/kg	10.23.19 05:08	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.229	115	70-130	12	35	mg/kg	10.23.19 05:08	
o-Xylene	<0.00200	0.100	0.106	106	0.119	119	70-130	12	35	mg/kg	10.23.19 05:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	86		86		85		70-130	%	10.23.19 05:08
4-Bromofluorobenzene	101		109		111		70-130	%	10.23.19 05:08

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3105189 Matrix: Soil Date Prep: 10.22.19

Parent Sample Id: 640517-001 MS Sample Id: 640517-001 S MSD Sample Id: 640517-001 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	0.0910	90	0.0834	84	70-130	9	35	mg/kg	10.23.19 05:48	
Toluene	<0.00201	0.101	0.0941	93	0.0859	86	70-130	9	35	mg/kg	10.23.19 05:48	
Ethylbenzene	<0.00201	0.101	0.104	103	0.0958	96	70-130	8	35	mg/kg	10.23.19 05:48	
m,p-Xylenes	<0.00402	0.201	0.207	103	0.189	95	70-130	9	35	mg/kg	10.23.19 05:48	
o-Xylene	<0.00201	0.101	0.108	107	0.100	100	70-130	8	35	mg/kg	10.23.19 05:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		88		70-130	%	10.23.19 05:48
4-Bromofluorobenzene	126		116		70-130	%	10.23.19 05:48

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 228 of 744

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: 440517

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal SWD	Turn Around	
Project Number:	2RP-3129	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	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:	9

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH01	S	10/16/2019	1445	1	1	X	X	X
PH01A	S	10/16/2019	1455	2	1	X	X	X
PH01B	S	10/16/2019	1500	3	1	X	X	X
PH01C	S	10/16/2019	1510	4	1	X	X	X
PH01D	S	10/16/2019	1515	5	1	X	X	X
PH02	S	10/16/2019	1530	1	1	X	X	X
PH02A	S	10/16/2019	1540	2	1	X	X	X
PH02B	S	10/16/2019	1545	3	1	X	X	X
PH02C	S	10/16/2019	1550	4	1	X	X	X

ANALYSIS REQUEST

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		Ann Byers	10/21/19 0845	2	Ann Byers		10/21/19 09:10
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 29 of 33
Released to Imaging: 9/21/2022 2:36:52 PM

Inter-Office Shipment

IOS Number **50485**

Date/Time: 10/21/19 13:00
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776773967529

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
640517-001	S	PH01	10/16/19 14:45	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-001	S	PH01	10/16/19 14:45	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-001	S	PH01	10/16/19 14:45	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-002	S	PH01A	10/16/19 14:55	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-002	S	PH01A	10/16/19 14:55	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-002	S	PH01A	10/16/19 14:55	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-003	S	PH01B	10/16/19 15:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-003	S	PH01B	10/16/19 15:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-003	S	PH01B	10/16/19 15:00	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-004	S	PH01C	10/16/19 15:10	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-004	S	PH01C	10/16/19 15:10	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-004	S	PH01C	10/16/19 15:10	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-005	S	PH01D	10/16/19 15:15	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-005	S	PH01D	10/16/19 15:15	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-005	S	PH01D	10/16/19 15:15	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-006	S	PH02	10/16/19 15:30	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-006	S	PH02	10/16/19 15:30	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-006	S	PH02	10/16/19 15:30	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-007	S	PH02A	10/16/19 15:40	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-007	S	PH02A	10/16/19 15:40	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-007	S	PH02A	10/16/19 15:40	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-008	S	PH02B	10/16/19 15:45	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	
640517-008	S	PH02B	10/16/19 15:45	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-008	S	PH02B	10/16/19 15:45	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	
640517-009	S	PH02C	10/16/19 15:50	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/30/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment

IOS Number **50485**

Date/Time: 10/21/19 13:00
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776773967529

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
640517-009	S	PH02C	10/16/19 15:50	SW8021B	BTEX by EPA 8021B	10/25/19	10/30/19	JKR	BR4FBZ BZ BZME EBZ X	
640517-009	S	PH02C	10/16/19 15:50	E300_CL	Chloride by EPA 300	10/25/19	04/13/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 10/21/2019

Received By: Brianna Teel

Date Received: 10/22/2019 11:10

Cooler Temperature: 2.3

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 50485

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 10/21/2019 01:00 PM

Received By: Brianna Teel **Date Received:** 10/22/2019 11:10 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: 10/22/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/21/2019 09:10:00 AM

Work Order #: 640517

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?	**Yes**	
#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 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: 10/21/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

Analytical Report 640664

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal SWD

2RP-3129

30-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)

Released to Imaging: 9/21/2022 2:36:52 PM

30-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640664**
Indian Flats Bass Federal SWD
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) 640664. 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. 640664 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	10-18-19 12:50	1 ft	640664-001
BH01A	S	10-18-19 12:55	2 ft	640664-002
BH02	S	10-18-19 13:00	1 ft	640664-003
BH02A	S	10-18-19 13:05	2 ft	640664-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal SWD

Project ID: *2RP-3129*
Work Order Number(s): *640664*

Report Date: *30-OCT-19*
Date Received: *10/22/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105173 Chloride by EPA 300

Lab Sample ID 640666-001 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: 640664-001, -002, -003, -004.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3105180 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 640664

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal SWD

Project Id: 2RP-3129
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 30-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640664-001		640664-002		640664-003		640664-004					
	Field Id:	BH01		BH01A		BH02		BH02A					
	Depth:	1- ft		2- ft		1- ft		2- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Oct-18-19 12:50		Oct-18-19 12:55		Oct-18-19 13:00		Oct-18-19 13:05					
BTEX by EPA 8021B	***Extracted:***	Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10					
	Analyzed:	Oct-22-19 18:59		Oct-22-19 19:20		Oct-22-19 19:40		Oct-22-19 20:00					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101	<0.00101	0.00101				
Toluene		<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101	<0.00101	0.00101				
Ethylbenzene		<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101	<0.00101	0.00101				
m,p-Xylenes		<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00202	0.00202				
o-Xylene		<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101	<0.00101	0.00101				
Total Xylenes		<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101	<0.00101	0.00101				
Total BTEX		<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101	<0.00101	0.00101				
Chloride by EPA 300	***Extracted:***	Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10					
	Analyzed:	Oct-22-19 16:56		Oct-22-19 17:18		Oct-22-19 17:25		Oct-22-19 17:32					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		24.5	9.88	852	49.9	1270	50.1	585	50.0				
TPH by SW8015 Mod	***Extracted:***	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00					
	Analyzed:	Oct-22-19 19:24		Oct-22-19 19:24		Oct-22-19 19:43		Oct-22-19 19:43					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.2	50.2				
Diesel Range Organics (DRO)		<50.3	50.3	<50.1	50.1	59.8	50.2	<50.2	50.2				
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.2	50.2				
Total GRO-DRO		<50.3	50.3	<50.1	50.1	59.8	50.2	<50.2	50.2				
Total TPH		<50.3	50.3	<50.1	50.1	59.8	50.2	<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 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-001	Date Collected:	10.18.19 12.50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24.5**	9.88	mg/kg	10.22.19 16.56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.22.19 19.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.22.19 19.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.22.19 19.24	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.22.19 19.24	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.22.19 19.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.22.19 19.24	
o-Terphenyl	84-15-1	108	%	70-135	10.22.19 19.24	

Certificate of Analytical Results 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-001	Date Collected:	10.18.19 12.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	10.22.19 18.59	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	10.22.19 18.59	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	10.22.19 18.59	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	10.22.19 18.59	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	10.22.19 18.59	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	10.22.19 18.59	U	1
Total BTEX		<0.000994	0.000994	mg/kg	10.22.19 18.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.22.19 18.59	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.22.19 18.59	

Certificate of Analytical Results 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-002	Date Collected:	10.18.19 12.55	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**852**	49.9	mg/kg	10.22.19 17.18		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.22.19 19.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.22.19 19.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.22.19 19.24	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.22.19 19.24	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.22.19 19.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	10.22.19 19.24	
o-Terphenyl	84-15-1	100	%	70-135	10.22.19 19.24	

Certificate of Analytical Results 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-002	Date Collected:	10.18.19 12.55	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.22.19 19.20	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.22.19 19.20	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.22.19 19.20	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	10.22.19 19.20	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.22.19 19.20	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.22.19 19.20	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.22.19 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.22.19 19.20	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.22.19 19.20	

Certificate of Analytical Results 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-003	Date Collected:	10.18.19 13.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1270**	50.1	mg/kg	10.22.19 17.25		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.22.19 19.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	**59.8**	50.2	mg/kg	10.22.19 19.43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.22.19 19.43	U	1
Total GRO-DRO	PHC628	**59.8**	50.2	mg/kg	10.22.19 19.43		1
Total TPH	PHC635	**59.8**	50.2	mg/kg	10.22.19 19.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.22.19 19.43	
o-Terphenyl	84-15-1	98	%	70-135	10.22.19 19.43	

Certificate of Analytical Results 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-003	Date Collected:	10.18.19 13.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.22.19 19.40	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.22.19 19.40	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.22.19 19.40	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	10.22.19 19.40	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.22.19 19.40	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.22.19 19.40	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.22.19 19.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.22.19 19.40	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.22.19 19.40	

Certificate of Analytical Results 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-004	Date Collected:	10.18.19 13.05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**585**	50.0	mg/kg	10.22.19 17.32		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.22.19 19.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.22.19 19.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.22.19 19.43	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.22.19 19.43	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.22.19 19.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	10.22.19 19.43	
o-Terphenyl	84-15-1	87	%	70-135	10.22.19 19.43	

Certificate of Analytical Results 640664

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640664-004	Date Collected:	10.18.19 13.05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.22.19 20.00	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.22.19 20.00	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.22.19 20.00	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.22.19 20.00	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.22.19 20.00	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.22.19 20.00	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.22.19 20.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.22.19 20.00	
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.22.19 20.00	

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: 9/21/2022 2:36:52 PM

QC Summary 640664

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105173 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688678-1-BLK — LCS Sample Id: 7688678-1-BKS — LCSD Sample Id: 7688678-1-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	270	108	269	108	90-110	0	20	mg/kg	10.22.19 16:43	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105173 — Matrix: Solid — Date Prep: 10.22.19
Parent Sample Id: 640664-001 — MS Sample Id: 640664-001 S — MSD Sample Id: 640664-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	24.5	199	247	112	246	111	90-110	0	20	mg/kg	10.22.19 17:03	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105173 — Matrix: Solid — Date Prep: 10.22.19
Parent Sample Id: 640666-001 — MS Sample Id: 640666-001 S — MSD Sample Id: 640666-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1210	996	2490	129	2520	131	90-110	1	20	mg/kg	10.22.19 18:49	X

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105061 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688636-1-BLK — LCS Sample Id: 7688636-1-BKS — LCSD Sample Id: 7688636-1-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	930	93	906	91	70-135	3	35	mg/kg	10.22.19 17:22	
Diesel Range Organics (DRO)	16.2	1000	811	81	841	84	70-135	4	35	mg/kg	10.22.19 17:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		95		95		70-135	%	10.22.19 17:22
o-Terphenyl	80		87		90		70-135	%	10.22.19 17:22

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105061 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688636-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.22.19 17:01	

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 640664

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105061 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640592-035 — MS Sample Id: 640592-035 S — MSD Sample Id: 640592-035 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)	<50.0	1000	887	89	906	91	70-135	2	35	mg/kg	10.22.19 17:42	
Diesel Range Organics (DRO)	<50.0	1000	827	83	933	93	70-135	12	35	mg/kg	10.22.19 17:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		102		70-135	%	10.22.19 17:42
o-Terphenyl	92		96		70-135	%	10.22.19 17:42

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105180 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688753-1-BLK — LCS Sample Id: 7688753-1-BKS — LCSD Sample Id: 7688753-1-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	0.0927	93	0.0921	92	70-130	1	35	mg/kg	10.22.19 17:03	
Toluene	<0.00100	0.100	0.0898	90	0.0891	89	70-130	1	35	mg/kg	10.22.19 17:03	
Ethylbenzene	<0.00100	0.100	0.0923	92	0.0913	91	71-129	1	35	mg/kg	10.22.19 17:03	
m,p-Xylenes	<0.00200	0.200	0.185	93	0.183	92	70-135	1	35	mg/kg	10.22.19 17:03	
o-Xylene	<0.00100	0.100	0.0922	92	0.0922	92	71-133	0	35	mg/kg	10.22.19 17:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		102		70-130	%	10.22.19 17:03
4-Bromofluorobenzene	107		104		108		70-130	%	10.22.19 17:03

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105180 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640664-001 — MS Sample Id: 640664-001 S — MSD Sample Id: 640664-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000990	0.0990	0.0949	96	0.0951	95	70-130	0	35	mg/kg	10.22.19 17:44	
Toluene	<0.000990	0.0990	0.0912	92	0.0897	90	70-130	2	35	mg/kg	10.22.19 17:44	
Ethylbenzene	<0.000990	0.0990	0.0931	94	0.0905	91	71-129	3	35	mg/kg	10.22.19 17:44	
m,p-Xylenes	<0.00198	0.198	0.187	94	0.181	91	70-135	3	35	mg/kg	10.22.19 17:44	
o-Xylene	<0.000990	0.0990	0.0939	95	0.0915	92	71-133	3	35	mg/kg	10.22.19 17:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		70-130	%	10.22.19 17:44
4-Bromofluorobenzene	110		111		70-130	%	10.22.19 17:44

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 249 of 744

Chain of Custody

Work Order No: 1e406e64

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal SWD	Turn Around	
Project Number:	2RP-3129	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0	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:	4	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH01	S	10/18/2019	1250	1	1	X	X	X
BH01A	S	10/18/2019	1255	2	1	X	X	X
BH02	S	10/18/2019	1300	1	1	X	X	X
BH02A	S	10/18/2019	1305	2	1	X	X	X

ANALYSIS REQUEST

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

ice: 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
ervice. 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
enco. 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
	Anna Byers	10/22/19 1010	2 Anna Byers		10/22/19 10:50
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 17 of 18
Released to Imaging: 9/21/2022 2:36:52 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/22/2019 10:50:00 AM

Work Order #: 640664

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?	**Yes**
#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: 10/22/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

ANALYTICAL REPORT

January 08, 2018

XTO Energy- Delaware Division

Sample Delivery Group:	L960340
Samples Received:	12/29/2017
Project Number:	30-015-24968
Description:	Confirmation Soil Samples
Site:	INDIAN FLATS BASS FEDERAL SWD
Report To:	Kyle Littrell 6401 N Holiday Hill Rd Suite 200 Midland, TX 79707

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Released to Imaging: 9/21/2022 2:36:52 PM

Cp: Cover Page 1
Tc: Table of Contents 2
Ss: Sample Summary 3
Cn: Case Narrative 5
Sr: Sample Results 6
SS-1 L960340-01 6
SS-2 L960340-02 7
SS-3 L960340-03 8
SS-4 L960340-04 9
SS-5 L960340-05 10
SS-6 L960340-06 11
SS-7 L960340-07 12
SS-8 L960340-08 13
SS-9 L960340-09 14
SS-10 L960340-10 15
Qc: Quality Control Summary 16
Total Solids by Method 2540 G-2011 16
Wet Chemistry by Method 300.0 18
Volatile Organic Compounds (GC) by Method 8015/8021 19
Semi-Volatile Organic Compounds (GC) by Method 8015 20
Gl: Glossary of Terms 21
Al: Accreditations & Locations 22
Sc: Sample Chain of Custody 23

SS-1 L960340-01 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/27/17 11:20	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059160	1	01/03/18 15:32	01/03/18 16:03	KDW
Wet Chemistry by Method 300.0	WG1058430	10	12/29/17 14:44	12/29/17 18:22	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	12/31/17 22:07	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 07:03	ACM

SS-2 L960340-02 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/27/17 11:23	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	1	12/29/17 14:44	12/29/17 18:39	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	12/31/17 22:28	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 04:27	ACM

SS-3 L960340-03 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/27/17 11:26	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	5	12/29/17 14:44	12/29/17 18:48	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	12/31/17 22:50	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 04:44	ACM

SS-4 L960340-04 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/27/17 11:29	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	20	12/29/17 14:44	12/29/17 18:56	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	12/31/17 23:11	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 04:09	ACM

SS-5 L960340-05 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/27/17 11:31	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	20	12/29/17 14:44	12/29/17 19:05	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	12/31/17 23:33	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 05:54	ACM

SS-6 L960340-06 Solid

Collected by	Collected date/time	Received date/time
Aaron Williamson	12/27/17 11:33	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	20	12/29/17 14:44	12/29/17 19:30	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	12/31/17 23:54	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 05:02	ACM

SS-7 L960340-07 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 11:35 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	10	12/29/17 14:44	12/29/17 19:39	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	01/01/18 00:15	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 05:19	ACM

SS-8 L960340-08 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 11:36 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	10	12/29/17 14:44	12/29/17 19:47	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	01/01/18 00:37	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 06:29	ACM

SS-9 L960340-09 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 11:39 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	10	12/29/17 14:44	12/29/17 20:13	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	01/01/18 00:58	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 06:46	ACM

SS-10 L960340-10 Solid

Collected by: Aaron Williamson | Collected date/time: 12/27/17 11:43 | Received date/time: 12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059205	1	01/04/18 15:32	01/04/18 15:43	KDW
Wet Chemistry by Method 300.0	WG1058430	5	12/29/17 14:44	12/29/17 20:21	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:39	01/01/18 01:20	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 07:38	ACM

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	01/03/2018 16:03	WG1059160

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	4060		103	10	12/29/2017 18:22	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000517	1	12/31/2017 22:07	WG1058831
Toluene	ND		0.00517	1	12/31/2017 22:07	WG1058831
Ethylbenzene	ND		0.000517	1	12/31/2017 22:07	WG1058831
Total Xylene	ND		0.00155	1	12/31/2017 22:07	WG1058831
TPH (GC/FID) Low Fraction	ND		0.103	1	12/31/2017 22:07	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*87.4*		*77.0-120*		*12/31/2017 22:07*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*91.7*		*75.0-128*		*12/31/2017 22:07*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	193		4.13	1	01/06/2018 07:03	WG1058995
C28-C40 Oil Range	245		4.13	1	01/06/2018 07:03	WG1058995
(S) o-Terphenyl	*109*		*18.0-148*		*01/06/2018 07:03*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	851		11.0	1	12/29/2017 18:39	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000549	1	12/31/2017 22:28	WG1058831
Toluene	ND		0.00549	1	12/31/2017 22:28	WG1058831
Ethylbenzene	ND		0.000549	1	12/31/2017 22:28	WG1058831
Total Xylene	ND		0.00165	1	12/31/2017 22:28	WG1058831
TPH (GC/FID) Low Fraction	ND		0.110	1	12/31/2017 22:28	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*91.3*		*77.0-120*		*12/31/2017 22:28*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*94.3*		*75.0-128*		*12/31/2017 22:28*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.39	1	01/06/2018 04:27	WG1058995
C28-C40 Oil Range	5.03		4.39	1	01/06/2018 04:27	WG1058995
(S) o-Terphenyl	*113*		*18.0-148*		*01/06/2018 04:27*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	2760		55.2	5	12/29/2017 18:48	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000552	1	12/31/2017 22:50	WG1058831
Toluene	ND		0.00552	1	12/31/2017 22:50	WG1058831
Ethylbenzene	ND		0.000552	1	12/31/2017 22:50	WG1058831
Total Xylene	ND		0.00165	1	12/31/2017 22:50	WG1058831
TPH (GC/FID) Low Fraction	ND		0.110	1	12/31/2017 22:50	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*88.5*		*77.0-120*		*12/31/2017 22:50*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*94.0*		*75.0-128*		*12/31/2017 22:50*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.41	1	01/06/2018 04:44	WG1058995
C28-C40 Oil Range	8.20		4.41	1	01/06/2018 04:44	WG1058995
(S) o-Terphenyl	*122*		*18.0-148*		*01/06/2018 04:44*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	10600		209	20	12/29/2017 18:56	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000524	1	12/31/2017 23:11	WG1058831
Toluene	ND		0.00524	1	12/31/2017 23:11	WG1058831
Ethylbenzene	ND		0.000524	1	12/31/2017 23:11	WG1058831
Total Xylene	ND		0.00157	1	12/31/2017 23:11	WG1058831
TPH (GC/FID) Low Fraction	ND		0.105	1	12/31/2017 23:11	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*88.8*		*77.0-120*		*12/31/2017 23:11*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*94.2*		*75.0-128*		*12/31/2017 23:11*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.19	1	01/06/2018 04:09	WG1058995
C28-C40 Oil Range	5.48		4.19	1	01/06/2018 04:09	WG1058995
(S) o-Terphenyl	*112*		*18.0-148*		*01/06/2018 04:09*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	10100		209	20	12/29/2017 19:05	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000523	1	12/31/2017 23:33	WG1058831
Toluene	ND		0.00523	1	12/31/2017 23:33	WG1058831
Ethylbenzene	ND		0.000523	1	12/31/2017 23:33	WG1058831
Total Xylene	ND		0.00157	1	12/31/2017 23:33	WG1058831
TPH (GC/FID) Low Fraction	ND		0.105	1	12/31/2017 23:33	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*88.4*		*77.0-120*		*12/31/2017 23:33*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*91.9*		*75.0-128*		*12/31/2017 23:33*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	9.94		4.19	1	01/06/2018 05:54	WG1058995
C28-C40 Oil Range	14.8		4.19	1	01/06/2018 05:54	WG1058995
(S) o-Terphenyl	*126*		*18.0-148*		*01/06/2018 05:54*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.1		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	13300		215	20	12/29/2017 19:30	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000537	1	12/31/2017 23:54	WG1058831
Toluene	ND		0.00537	1	12/31/2017 23:54	WG1058831
Ethylbenzene	ND		0.000537	1	12/31/2017 23:54	WG1058831
Total Xylene	ND		0.00161	1	12/31/2017 23:54	WG1058831
TPH (GC/FID) Low Fraction	ND		0.107	1	12/31/2017 23:54	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*88.7*		*77.0-120*		*12/31/2017 23:54*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*93.5*		*75.0-128*		*12/31/2017 23:54*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	5.66		4.30	1	01/06/2018 05:02	WG1058995
C28-C40 Oil Range	6.89		4.30	1	01/06/2018 05:02	WG1058995
(S) o-Terphenyl	*132*		*18.0-148*		*01/06/2018 05:02*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	4000		116	10	12/29/2017 19:39	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000578	1	01/01/2018 00:15	WG1058831
Toluene	ND		0.00578	1	01/01/2018 00:15	WG1058831
Ethylbenzene	ND		0.000578	1	01/01/2018 00:15	WG1058831
Total Xylene	ND		0.00173	1	01/01/2018 00:15	WG1058831
TPH (GC/FID) Low Fraction	ND		0.116	1	01/01/2018 00:15	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*88.4*		*77.0-120*		*01/01/2018 00:15*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*92.0*		*75.0-128*		*01/01/2018 00:15*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	7.20		4.62	1	01/06/2018 05:19	WG1058995
C28-C40 Oil Range	7.23		4.62	1	01/06/2018 05:19	WG1058995
(S) o-Terphenyl	*81.2*		*18.0-148*		*01/06/2018 05:19*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.6		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	3780		108	10	12/29/2017 19:47	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000540	1	01/01/2018 00:37	WG1058831
Toluene	ND		0.00540	1	01/01/2018 00:37	WG1058831
Ethylbenzene	ND		0.000540	1	01/01/2018 00:37	WG1058831
Total Xylene	ND		0.00162	1	01/01/2018 00:37	WG1058831
TPH (GC/FID) Low Fraction	ND		0.108	1	01/01/2018 00:37	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*86.7*		*77.0-120*		*01/01/2018 00:37*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*91.6*		*75.0-128*		*01/01/2018 00:37*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	15.3		4.32	1	01/06/2018 06:29	WG1058995
C28-C40 Oil Range	15.7		4.32	1	01/06/2018 06:29	WG1058995
(S) o-Terphenyl	*127*		*18.0-148*		*01/06/2018 06:29*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	5680		105	10	12/29/2017 20:13	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000525	1	01/01/2018 00:58	WG1058831
Toluene	ND		0.00525	1	01/01/2018 00:58	WG1058831
Ethylbenzene	ND		0.000525	1	01/01/2018 00:58	WG1058831
Total Xylene	ND		0.00158	1	01/01/2018 00:58	WG1058831
TPH (GC/FID) Low Fraction	ND		0.105	1	01/01/2018 00:58	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*88.1*		*77.0-120*		*01/01/2018 00:58*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*90.9*		*75.0-128*		*01/01/2018 00:58*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	37.1		4.20	1	01/06/2018 06:46	WG1058995
C28-C40 Oil Range	40.1		4.20	1	01/06/2018 06:46	WG1058995
(S) o-Terphenyl	*119*		*18.0-148*		*01/06/2018 06:46*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	01/04/2018 15:43	WG1059205

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	2510		51.8	5	12/29/2017 20:21	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000518	1	01/01/2018 01:20	WG1058831
Toluene	ND		0.00518	1	01/01/2018 01:20	WG1058831
Ethylbenzene	ND		0.000518	1	01/01/2018 01:20	WG1058831
Total Xylene	ND		0.00155	1	01/01/2018 01:20	WG1058831
TPH (GC/FID) Low Fraction	ND		0.104	1	01/01/2018 01:20	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*87.0*		*77.0-120*		*01/01/2018 01:20*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*90.5*		*75.0-128*		*01/01/2018 01:20*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	143		4.14	1	01/06/2018 07:38	WG1058995
C28-C40 Oil Range	201		4.14	1	01/06/2018 07:38	WG1058995
(S) o-Terphenyl	*105*		*18.0-148*		*01/06/2018 07:38*	WG1058995

Method Blank (MB)

(MB) R3277404-1 01/03/18 16:03

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.001			

L960340-01 Original Sample (OS) • Duplicate (DUP)

(OS) L960340-01 01/03/18 16:03 • (DUP) R3277404-3 01/03/18 16:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.8	96.9	1	0		5

Laboratory Control Sample (LCS)

(LCS) R3277404-2 01/03/18 16:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3277590-1 01/04/18 15:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0			

L960340-02 Original Sample (OS) • Duplicate (DUP)

(OS) L960340-02 01/04/18 15:43 • (DUP) R3277590-3 01/04/18 15:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.1	90.9	1	0		5

Laboratory Control Sample (LCS)

(LCS) R3277590-2 01/04/18 15:43

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3276745-1 12/29/17 15:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L960340-01 Original Sample (OS) • Duplicate (DUP)

(OS) L960340-01 12/29/17 18:22 • (DUP) R3276745-4 12/29/17 18:31

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4060	3900	10	3.99		20

L960364-01 Original Sample (OS) • Duplicate (DUP)

(OS) L960364-01 12/29/17 20:30 • (DUP) R3276745-7 12/29/17 20:38

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	114	85.5	1	28.4	J3	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3276745-2 12/29/17 15:46 • (LCSD) R3276745-3 12/29/17 15:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	214	215	107	107	90-110			0.543	20

Method Blank (MB)

(MB) R3277358-5 12/31/17 21:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000457	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*89.5*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*92.6*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277358-1 12/31/17 19:32 • (LCSD) R3277358-2 12/31/17 19:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0447	0.0398	89.4	79.6	71.0-121			11.6	20
Toluene	0.0500	0.0468	0.0412	93.7	82.5	72.0-120			12.7	20
Ethylbenzene	0.0500	0.0488	0.0431	97.6	86.3	76.0-121			12.3	20
Total Xylene	0.150	0.149	0.132	99.3	88.2	75.0-124			11.9	20
(S) a,a,a-Trifluorotoluene(FID)				*88.4*	*88.6*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*91.4*	*91.3*	*75.0-128*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277358-3 12/31/17 20:15 • (LCSD) R3277358-4 12/31/17 20:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.82	5.57	106	101	70.0-136			4.30	20
(S) a,a,a-Trifluorotoluene(FID)				*83.4*	*83.1*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*99.2*	*99.8*	*75.0-128*				

Method Blank (MB)

(MB) R3277803-1 01/06/18 03:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*127*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277803-2 01/06/18 03:34 • (LCSD) R3277803-3 01/06/18 03:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	51.6	48.1	86.0	80.2	50.0-150			6.98	20
(S) o-Terphenyl				*147*	*140*	*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

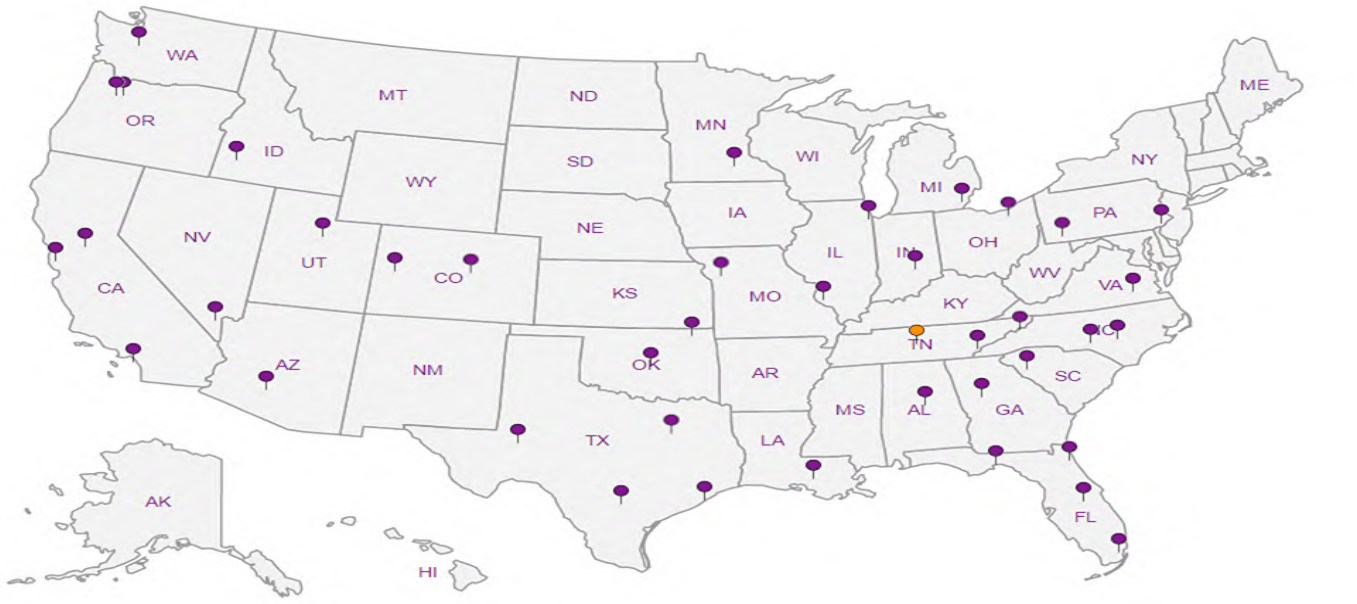
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



LTE

Billing Information: XTO

Pres Chk

Report to: Kyle Littrell

Email To: Kyle_Littrell@xtoenergy.com Abaker@LTENV.com

Project Description: Confirmation Soil Samples

City/State Collected: NM

Phone: Fax: 970-317-1867

Client Project # 30-015-24968

Lab Project #

Collected by (print): Aaron Williamson

Site/Facility ID # (RP-3220) Indian Flats Boss Federal SWD

P.O. # 012917061

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 960340
D131

Acctnum: XTORNM
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX EPA Method 8021	TPH EPA Method 8015	Chlor. de EPA Method 300.1	Remarks	Sample # (lab only)
SS-1	Grab	SS	6"	12/27/17	11:20	1	✓	✓	✓		-01
SS-2	Grab	SS	6"	12/27/17	11:23	1	✓	✓	✓		-02
SS-3	Grab	SS	6"	12/27/17	11:26	1	✓	✓	✓		-03
SS-4	Grab	SS	6"	12/27/17	11:29	1	✓	✓	✓		-04
SS-5	Grab	SS	6"	12/27/17	11:31	1	✓	✓	✓		-05
SS-6	Grab	SS	6"	12/27/17	11:33	1	✓	✓	✓		-06
SS-7	Grab	SS	6"	12/27/17	11:35	1	✓	✓	✓		-07
SS-8	Grab	SS	6"	12/27/17	11:36	1	✓	✓	✓		-08
SS-9	Grab	SS	6"	12/27/17	11:39	1	✓	✓	✓		-09
SS-10	Grab	SS	6"	12/27/17	11:43	1	✓	✓	✓		-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ___

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier ___

Tracking # 7384 4201 4809

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
	12/28/17	0720			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.7 °C Bottles Received: 10	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/29/17 Time: 0815	Hold: Condition: NCF / OK

Analytical Report 640662

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal SWD

2RP-3208/3212

30-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)

Released to Imaging: 9/21/2022 2:36:52 PM

30-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640662**
Indian Flats Bass Federal SWD
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) 640662. 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. 640662 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-18-19 15:20	1 ft	640662-001
PH01A	S	10-18-19 15:30	2 ft	640662-002
PH02	S	10-18-19 15:40	1 ft	640662-003
PH02A	S	10-18-19 15:50	2 ft	640662-004
PH03	S	10-18-19 16:00	1 ft	640662-005
PH03A	S	10-18-19 16:10	2 ft	640662-006
PH04	S	10-18-19 16:20	1 ft	640662-007
PH04A	S	10-18-19 16:30	2 ft	640662-008
PH05	S	10-18-19 17:10	1 ft	640662-009
PH05A	S	10-18-19 17:20	2 ft	640662-010
PH06	S	10-18-19 16:40	1 ft	640662-011
PH06A	S	10-18-19 16:50	2 ft	640662-012

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal SWD

Project ID: *2RP-3208/3212*
Work Order Number(s): *640662*

Report Date: *30-OCT-19*
Date Received: *10/22/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105180 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 640662

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal SWD

Project Id: 2RP-3208/3212
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 30-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640662-001		640662-002		640662-003		640662-004		640662-005		640662-006	
	Field Id:	PH01		PH01A		PH02		PH02A		PH03		PH03A	
	Depth:	1- ft		2- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 15:20		Oct-18-19 15:30		Oct-18-19 15:40		Oct-18-19 15:50		Oct-18-19 16:00		Oct-18-19 16:10	
BTEX by EPA 8021B	***Extracted:***	Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10	
	Analyzed:	Oct-22-19 21:36		Oct-22-19 21:56		Oct-22-19 22:17		Oct-22-19 22:37		Oct-22-19 23:52		Oct-23-19 00:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000996	0.000996	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100
Toluene		<0.000996	0.000996	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100
Ethylbenzene		<0.000996	0.000996	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100
m,p-Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201
o-Xylene		<0.000996	0.000996	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100
Total Xylenes		<0.000996	0.000996	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100
Total BTEX		<0.000996	0.000996	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100
Chloride by EPA 300	***Extracted:***	Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10	
	Analyzed:	Oct-22-19 17:39		Oct-22-19 18:00		Oct-22-19 18:07		Oct-22-19 18:13		Oct-22-19 19:21		Oct-22-19 19:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4900	251	5290	200	5050	101	6590 D	200	307	9.98	3810	49.9
TPH by SW8015 Mod	***Extracted:***	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-22-19 20:03		Oct-22-19 20:23		Oct-22-19 20:23		Oct-22-19 20:43		Oct-22-19 20:43		Oct-22-19 21:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.2	50.2	<50.2	50.2	<50.2	50.2
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.2	50.2	365	50.2	423	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.2	50.2	75.1	50.2	85.4	50.2
Total GRO-DRO		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.2	50.2	365	50.2	423	50.2
Total TPH		<50.0	50.0	<50.0	50.0	<50.2	50.2	<50.2	50.2	440	50.2	508	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

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 640662

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal SWD

Project Id: 2RP-3208/3212
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 30-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640662-007		640662-008		640662-009		640662-010		640662-011		640662-012	
	Field Id:	PH04		PH04A		PH05		PH05A		PH06		PH06A	
	Depth:	1- ft		2- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 16:20		Oct-18-19 16:30		Oct-18-19 17:10		Oct-18-19 17:20		Oct-18-19 16:40		Oct-18-19 16:50	
BTEX by EPA 8021B	*Extracted:*	Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10		Oct-22-19 15:10	
	Analyzed:	Oct-23-19 00:33		Oct-23-19 00:54		Oct-23-19 01:14		Oct-23-19 01:34		Oct-23-19 01:55		Oct-23-19 02:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000992	0.000992	<0.00100	0.00100	<0.000998	0.000998	<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101
Toluene		<0.000992	0.000992	<0.00100	0.00100	<0.000998	0.000998	<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101
Ethylbenzene		<0.000992	0.000992	<0.00100	0.00100	<0.000998	0.000998	<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101
m,p-Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202
o-Xylene		<0.000992	0.000992	<0.00100	0.00100	<0.000998	0.000998	<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101
Total Xylenes		<0.000992	0.000992	<0.00100	0.00100	<0.000998	0.000998	<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101
Total BTEX		<0.000992	0.000992	<0.00100	0.00100	<0.000998	0.000998	<0.000994	0.000994	<0.00101	0.00101	<0.00101	0.00101
Chloride by EPA 300	*Extracted:*	Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10		Oct-22-19 16:10	
	Analyzed:	Oct-22-19 19:33		Oct-22-19 19:39		Oct-22-19 19:46		Oct-22-19 19:52		Oct-22-19 18:21		Oct-22-19 18:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		613	199	741	49.9	431	10.0	291	10.0	342 D	202	262	9.96
TPH by SW8015 Mod	*Extracted:*	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:10		Oct-22-19 14:10	
	Analyzed:	Oct-22-19 21:03		Oct-22-19 21:23		Oct-22-19 21:23		Oct-22-19 21:42		Oct-22-19 22:22		Oct-22-19 23:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.1	50.1
Diesel Range Organics (DRO)		<50.1	50.1	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.1	50.1
Total GRO-DRO		<50.1	50.1	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.3	50.3	<50.1	50.1
Total TPH		<50.1	50.1	<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.3	50.3	<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 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-001	Date Collected:	10.18.19 15.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4900**	251	mg/kg	10.22.19 17.39		25

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.22.19 20.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.22.19 20.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.22.19 20.03	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.22.19 20.03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.22.19 20.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	10.22.19 20.03	
o-Terphenyl	84-15-1	82	%	70-135	10.22.19 20.03	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-001	Date Collected:	10.18.19 15.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	10.22.19 21.36	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	10.22.19 21.36	U	1
Ethylbenzene	100-41-4	<0.000996	0.000996	mg/kg	10.22.19 21.36	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	10.22.19 21.36	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	10.22.19 21.36	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	10.22.19 21.36	U	1
Total BTEX		<0.000996	0.000996	mg/kg	10.22.19 21.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.22.19 21.36	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.22.19 21.36	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-002	Date Collected:	10.18.19 15.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5290**	200	mg/kg	10.22.19 18.00		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.22.19 20.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.22.19 20.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.22.19 20.23	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.22.19 20.23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.22.19 20.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	10.22.19 20.23	
o-Terphenyl	84-15-1	91	%	70-135	10.22.19 20.23	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-002	Date Collected:	10.18.19 15.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.22.19 21.56	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.22.19 21.56	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.22.19 21.56	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.22.19 21.56	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.22.19 21.56	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.22.19 21.56	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.22.19 21.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.22.19 21.56	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.22.19 21.56	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-003	Date Collected:	10.18.19 15.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5050**	101	mg/kg	10.22.19 18.07		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.22.19 20.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.22.19 20.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.22.19 20.23	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.22.19 20.23	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.22.19 20.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.22.19 20.23	
o-Terphenyl	84-15-1	90	%	70-135	10.22.19 20.23	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-003	Date Collected:	10.18.19 15.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.22.19 22.17	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.22.19 22.17	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.22.19 22.17	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.22.19 22.17	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.22.19 22.17	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.22.19 22.17	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.22.19 22.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.22.19 22.17	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.22.19 22.17	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-004	Date Collected:	10.18.19 15.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6590**	200	mg/kg	10.23.19 08.50	D	20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.22.19 20.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.22.19 20.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.22.19 20.43	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.22.19 20.43	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.22.19 20.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.22.19 20.43	
o-Terphenyl	84-15-1	99	%	70-135	10.22.19 20.43	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-004	Date Collected:	10.18.19 15.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	10.22.19 22.37	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	10.22.19 22.37	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	10.22.19 22.37	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	10.22.19 22.37	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	10.22.19 22.37	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	10.22.19 22.37	U	1
Total BTEX		<0.00100	0.00100	mg/kg	10.22.19 22.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.22.19 22.37	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.22.19 22.37	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-005	Date Collected:	10.18.19 16.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**307**	9.98	mg/kg	10.22.19 19.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.22.19 20.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	**365**	50.2	mg/kg	10.22.19 20.43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**75.1**	50.2	mg/kg	10.22.19 20.43		1
Total GRO-DRO	PHC628	**365**	50.2	mg/kg	10.22.19 20.43		1
Total TPH	PHC635	**440**	50.2	mg/kg	10.22.19 20.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	10.22.19 20.43	
o-Terphenyl	84-15-1	90	%	70-135	10.22.19 20.43	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-005	Date Collected:	10.18.19 16.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.22.19 23.52	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.22.19 23.52	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.22.19 23.52	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.22.19 23.52	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.22.19 23.52	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.22.19 23.52	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.22.19 23.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.22.19 23.52	
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.22.19 23.52	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-006	Date Collected:	10.18.19 16.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3810**	49.9	mg/kg	10.22.19 19.27		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.22.19 21.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	**423**	50.2	mg/kg	10.22.19 21.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**85.4**	50.2	mg/kg	10.22.19 21.03		1
Total GRO-DRO	PHC628	**423**	50.2	mg/kg	10.22.19 21.03		1
Total TPH	PHC635	**508**	50.2	mg/kg	10.22.19 21.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.22.19 21.03	
o-Terphenyl	84-15-1	99	%	70-135	10.22.19 21.03	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-006	Date Collected:	10.18.19 16.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	10.23.19 00.13	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	10.23.19 00.13	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	10.23.19 00.13	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	10.23.19 00.13	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	10.23.19 00.13	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	10.23.19 00.13	U	1
Total BTEX		<0.00100	0.00100	mg/kg	10.23.19 00.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.23.19 00.13	
4-Bromofluorobenzene	460-00-4	100	%	70-130	10.23.19 00.13	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-007	Date Collected:	10.18.19 16.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**613**	199	mg/kg	10.22.19 19.33		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.22.19 21.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.22.19 21.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.22.19 21.03	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.22.19 21.03	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.22.19 21.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	10.22.19 21.03	
o-Terphenyl	84-15-1	92	%	70-135	10.22.19 21.03	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-007	Date Collected:	10.18.19 16.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000992	0.000992	mg/kg	10.23.19 00.33	U	1
Toluene	108-88-3	<0.000992	0.000992	mg/kg	10.23.19 00.33	U	1
Ethylbenzene	100-41-4	<0.000992	0.000992	mg/kg	10.23.19 00.33	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	10.23.19 00.33	U	1
o-Xylene	95-47-6	<0.000992	0.000992	mg/kg	10.23.19 00.33	U	1
Total Xylenes	1330-20-7	<0.000992	0.000992	mg/kg	10.23.19 00.33	U	1
Total BTEX		<0.000992	0.000992	mg/kg	10.23.19 00.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.23.19 00.33	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.23.19 00.33	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-008	Date Collected:	10.18.19 16.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**741**	49.9	mg/kg	10.22.19 19.39		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.22.19 21.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.22.19 21.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.22.19 21.23	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.22.19 21.23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.22.19 21.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	10.22.19 21.23	
o-Terphenyl	84-15-1	85	%	70-135	10.22.19 21.23	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-008	Date Collected:	10.18.19 16.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	10.23.19 00.54	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	10.23.19 00.54	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	10.23.19 00.54	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	10.23.19 00.54	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	10.23.19 00.54	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	10.23.19 00.54	U	1
Total BTEX		<0.00100	0.00100	mg/kg	10.23.19 00.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.23.19 00.54	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.23.19 00.54	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH05**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-009	Date Collected:	10.18.19 17.10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**431**	10.0	mg/kg	10.22.19 19.46		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.22.19 21.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.22.19 21.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.22.19 21.23	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.22.19 21.23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.22.19 21.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	10.22.19 21.23	
o-Terphenyl	84-15-1	90	%	70-135	10.22.19 21.23	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH05**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-009	Date Collected:	10.18.19 17.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	10.23.19 01.14	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	10.23.19 01.14	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	10.23.19 01.14	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	10.23.19 01.14	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	10.23.19 01.14	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	10.23.19 01.14	U	1
Total BTEX		<0.000998	0.000998	mg/kg	10.23.19 01.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.23.19 01.14	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.23.19 01.14	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-010	Date Collected:	10.18.19 17.20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**291**	10.0	mg/kg	10.22.19 19.52		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105061				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.22.19 21.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.22.19 21.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.22.19 21.42	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.22.19 21.42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.22.19 21.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	10.22.19 21.42	
o-Terphenyl	84-15-1	89	%	70-135	10.22.19 21.42	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-010	Date Collected:	10.18.19 17.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	10.23.19 01.34	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	10.23.19 01.34	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	10.23.19 01.34	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	10.23.19 01.34	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	10.23.19 01.34	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	10.23.19 01.34	U	1
Total BTEX		<0.000994	0.000994	mg/kg	10.23.19 01.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.23.19 01.34	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.23.19 01.34	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH06**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-011	Date Collected:	10.18.19 16.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**342**	202	mg/kg	10.23.19 09.53	D	20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.10	Basis:	Wet Weight
Seq Number:	3105101				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.22.19 22.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.22.19 22.22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.22.19 22.22	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.22.19 22.22	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.22.19 22.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	10.22.19 22.22	
o-Terphenyl	84-15-1	86	%	70-135	10.22.19 22.22	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH06**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-011	Date Collected:	10.18.19 16.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.23.19 01.55	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.23.19 01.55	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.23.19 01.55	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.23.19 01.55	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.23.19 01.55	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.23.19 01.55	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.23.19 01.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.23.19 01.55	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.23.19 01.55	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH06A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-012	Date Collected:	10.18.19 16.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**262**	9.96	mg/kg	10.22.19 18.28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.10	Basis:	Wet Weight
Seq Number:	3105101				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.22.19 23.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.22.19 23.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.22.19 23.02	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.22.19 23.02	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.22.19 23.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	10.22.19 23.02	
o-Terphenyl	84-15-1	94	%	70-135	10.22.19 23.02	

Certificate of Analytical Results 640662

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal SWD

Sample Id:	**PH06A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640662-012	Date Collected:	10.18.19 16.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 15.10	Basis:	Wet Weight
Seq Number:	3105180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.23.19 02.15	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.23.19 02.15	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.23.19 02.15	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.23.19 02.15	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.23.19 02.15	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.23.19 02.15	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.23.19 02.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.23.19 02.15	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.23.19 02.15	

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: 9/21/2022 2:36:52 PM

QC Summary 640662

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105173 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688678-1-BLK LCS Sample Id: 7688678-1-BKS LCSD Sample Id: 7688678-1-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	270	108	269	108	90-110	0	20	mg/kg	10.22.19 16:43	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105173 Matrix: Solid Date Prep: 10.22.19
Parent Sample Id: 640664-001 MS Sample Id: 640664-001 S MSD Sample Id: 640664-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	24.5	199	247	112	246	111	90-110	0	20	mg/kg	10.22.19 17:03	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105173 Matrix: Solid Date Prep: 10.22.19
Parent Sample Id: 640666-001 MS Sample Id: 640666-001 S MSD Sample Id: 640666-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1210	996	2490	129	2520	131	90-110	1	20	mg/kg	10.22.19 18:49	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105061 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688636-1-BLK LCS Sample Id: 7688636-1-BKS LCSD Sample Id: 7688636-1-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	930	93	906	91	70-135	3	35	mg/kg	10.22.19 17:22	
Diesel Range Organics (DRO)	16.2	1000	811	81	841	84	70-135	4	35	mg/kg	10.22.19 17:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		95		95		70-135	%	10.22.19 17:22
o-Terphenyl	80		87		90		70-135	%	10.22.19 17:22

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 640662

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105101 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688651-1-BLK — LCS Sample Id: 7688651-1-BKS — LCSD Sample Id: 7688651-1-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	889	89	875	88	70-135	2	35	mg/kg	10.22.19 22:02	
Diesel Range Organics (DRO)	<50.0	1000	826	83	807	81	70-135	2	35	mg/kg	10.22.19 22:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		93		92		70-135	%	10.22.19 22:02
o-Terphenyl	78		88		87		70-135	%	10.22.19 22:02

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105061 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688636-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.22.19 17:01	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105101 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688651-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.22.19 22:02	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105061 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640592-035 — MS Sample Id: 640592-035 S — MSD Sample Id: 640592-035 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)	<50.0	1000	887	89	906	91	70-135	2	35	mg/kg	10.22.19 17:42	
Diesel Range Organics (DRO)	<50.0	1000	827	83	933	93	70-135	12	35	mg/kg	10.22.19 17:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		102		70-135	%	10.22.19 17:42
o-Terphenyl	92		96		70-135	%	10.22.19 17:42

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 640662

LT Environmental, Inc.

Indian Flats Bass Federal SWD

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105101 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640662-011 — MS Sample Id: 640662-011 S — MSD Sample Id: 640662-011 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	832	83	790	79	70-135	5	35	mg/kg	10.22.19 22:42	
Diesel Range Organics (DRO)	18.0	1000	726	71	713	70	70-135	2	35	mg/kg	10.22.19 22:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		99		70-135	%	10.22.19 22:42
o-Terphenyl	97		96		70-135	%	10.22.19 22:42

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105180 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688753-1-BLK — LCS Sample Id: 7688753-1-BKS — LCSD Sample Id: 7688753-1-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	0.0927	93	0.0921	92	70-130	1	35	mg/kg	10.22.19 17:03	
Toluene	<0.00100	0.100	0.0898	90	0.0891	89	70-130	1	35	mg/kg	10.22.19 17:03	
Ethylbenzene	<0.00100	0.100	0.0923	92	0.0913	91	71-129	1	35	mg/kg	10.22.19 17:03	
m,p-Xylenes	<0.00200	0.200	0.185	93	0.183	92	70-135	1	35	mg/kg	10.22.19 17:03	
o-Xylene	<0.00100	0.100	0.0922	92	0.0922	92	71-133	0	35	mg/kg	10.22.19 17:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		102		70-130	%	10.22.19 17:03
4-Bromofluorobenzene	107		104		108		70-130	%	10.22.19 17:03

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105180 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640664-001 — MS Sample Id: 640664-001 S — MSD Sample Id: 640664-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000990	0.0990	0.0949	96	0.0951	95	70-130	0	35	mg/kg	10.22.19 17:44	
Toluene	<0.000990	0.0990	0.0912	92	0.0897	90	70-130	2	35	mg/kg	10.22.19 17:44	
Ethylbenzene	<0.000990	0.0990	0.0931	94	0.0905	91	71-129	3	35	mg/kg	10.22.19 17:44	
m,p-Xylenes	<0.00198	0.198	0.187	94	0.181	91	70-135	3	35	mg/kg	10.22.19 17:44	
o-Xylene	<0.000990	0.0990	0.0939	95	0.0915	92	71-133	3	35	mg/kg	10.22.19 17:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		70-130	%	10.22.19 17:44
4-Bromofluorobenzene	110		111		70-130	%	10.22.19 17:44

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 308 of 744

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: 440662

www.xenco.com Page 1 of 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal SWD	Turn Around	
Project Number:	2RP-3208/3212	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.0	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:	12	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH01	S	10/18/2019	1520	1	1	X	X	X
PH01A	S	10/18/2019	1530	2	1	X	X	X
PH02	S	10/18/2019	1540	1	1	X	X	X
PH02B	S	10/18/2019	1550	2	1	X	X	X
PH03	S	10/18/2019	1600	1	1	X	X	X
PH03A	S	10/18/2019	1610	2	1	X	X	X
PH04	S	10/18/2019	1620	1	1	X	X	X
PH04A	S	10/18/2019	1630	2	1	X	X	X
PH05	S	10/18/2019	1710	1	1	X	X	X
PH05A	S	10/18/2019	1720	2	1	X	X	X

ANALYSIS REQUEST

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

ce: 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
ervice. 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
enco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1				2	Anna Byers	Caitlin P	10/22/19 10:50
3		Anna Byers	10/22/19 1005	4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 35 of 37
Released to Imaging: 9/21/2022 2:36:52 PM

Page 309 of 744

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: 460662

www.xenco.com Page 2 of 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:	slo@ltenv.com, dmoir@ltenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal SWD	Turn Around	
Project Number:	2RP-3208/3212	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
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)
PH06	S	10/18/2019	1640	1	1	X	X	X
PH06A	S	10/18/2019	1650	2	1	X	X	X

ANALYSIS REQUEST

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

ice: 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
ervice. 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
enco. 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
	Anna Byers	10/22/19 1005	2 Anna Byers		10/22/19 10:50
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 36 of 37
Released to Imaging: 9/21/2022 2:36:52 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/22/2019 10:50:00 AM

Work Order #: 640662

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?	**Yes**
#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: 10/22/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

Analytical Report 655094

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal (3213/3208)

012917061

13-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: 9/21/2022 2:36:52 PM

13-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **655094**
Indian Flats Bass Federal (3213/3208)
Project Address: Eddy

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) 655094. 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. 655094 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: 9/21/2022 2:36:52 PM

Sample Cross Reference 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW03	S	03-09-20 12:51	1 - 4 ft	655094-001
SW04	S	03-09-20 09:39	2 ft	655094-002
SW04A	S	03-09-20 09:41	4 ft	655094-003
SW05	S	03-09-20 09:43	2 ft	655094-004
SW05A	S	03-09-20 09:45	4 ft	655094-005
SW06	S	03-09-20 13:45	1 - 4 ft	655094-006
FS07	S	03-09-20 14:31	4 ft	655094-007
FS08	S	03-09-20 14:35	4 ft	655094-008
FS09S	S	03-09-20 14:38	4 ft	655094-009

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal (3213/3208)

Project ID: *012917061*
Work Order Number(s): *655094*

Report Date: *13-MAR-20*
Date Received: *03/10/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3119165 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

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 655094

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal (3213/3208)

Project Id: 012917061
Contact: Dan Moir
Project Location: Eddy

Date Received in Lab: Tue Mar-10-20 08:45 am
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	655094-001		655094-002		655094-003		655094-004		655094-005		655094-006	
	Field Id:	SW03		SW04		SW04A		SW05		SW05A		SW06	
	Depth:	1-4 ft		2- ft		4- ft		2- ft		4- ft		1-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-09-20 12:51		Mar-09-20 09:39		Mar-09-20 09:41		Mar-09-20 09:43		Mar-09-20 09:45		Mar-09-20 13:45	
BTEX by EPA 8021B	*Extracted:*	Mar-10-20 10:30		Mar-10-20 10:30		Mar-10-20 10:30		Mar-10-20 10:30		Mar-10-20 10:30		Mar-10-20 11:00	
	Analyzed:	Mar-10-20 19:26		Mar-10-20 19:46		Mar-10-20 20:07		Mar-10-20 20:27		Mar-10-20 20:48		Mar-10-20 23:51	
	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	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00396	0.00396	<0.00398	0.00398	<0.00398	0.00398	<0.00398	0.00398	<0.00396	0.00396
o-Xylene		<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198
Chloride by EPA 300	*Extracted:*	Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24	
	Analyzed:	Mar-10-20 15:52		Mar-10-20 15:57		Mar-10-20 16:15		Mar-10-20 16:21		Mar-10-20 16:28		Mar-10-20 16:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1150	49.7	2650	50.3	4620	49.7	3150	49.9	1850	50.4	1230	49.8
TPH by SW8015 Mod	*Extracted:*	Mar-10-20 14:30		Mar-10-20 14:30		Mar-10-20 14:30		Mar-10-20 14:30		Mar-10-20 14:30		Mar-10-20 14:30	
	Analyzed:	Mar-10-20 20:45		Mar-10-20 21:06		Mar-10-20 21:26		Mar-10-20 21:46		Mar-10-20 22:07		Mar-10-20 15:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.1	50.1
Diesel Range Organics (DRO)		<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.1	50.1
Total GRO-DRO		<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.1	50.1
Total TPH		<49.9	49.9	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.2	50.2	<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

Certificate of Analysis Summary 655094

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal (3213/3208)

Project Id: 012917061
Contact: Dan Moir
Project Location: Eddy

Date Received in Lab: Tue Mar-10-20 08:45 am
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	655094-007		655094-008		655094-009					
	Field Id:	FS07		FS08		FS09S					
	Depth:	4- ft		4- ft		4- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Mar-09-20 14:31		Mar-09-20 14:35		Mar-09-20 14:38					
BTEX by EPA 8021B	*Extracted:*	Mar-10-20 11:00		Mar-10-20 11:00		Mar-10-20 11:00					
	Analyzed:	Mar-11-20 00:12		Mar-11-20 00:32		Mar-11-20 00:52					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198				
Toluene		<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198				
Ethylbenzene		<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198				
m,p-Xylenes		<0.00398	0.00398	<0.00397	0.00397	<0.00397	0.00397				
o-Xylene		<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198				
Total Xylenes		<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198				
Total BTEX		<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198				
Chloride by EPA 300	*Extracted:*	Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24					
	Analyzed:	Mar-10-20 16:52		Mar-10-20 16:58		Mar-10-20 17:04					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		1490	49.9	1630	50.0	1340	49.6				
TPH by SW8015 Mod	*Extracted:*	Mar-10-20 14:30		Mar-10-20 14:30		Mar-10-20 14:30					
	Analyzed:	Mar-10-20 22:27		Mar-10-20 22:47		Mar-10-20 18:23					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.1	50.1	<50.1	50.1				
Diesel Range Organics (DRO)		<50.0	50.0	<50.1	50.1	<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.1	50.1	<50.1	50.1				
Total GRO-DRO		<50.0	50.0	<50.1	50.1	<50.1	50.1				
Total TPH		<50.0	50.0	<50.1	50.1	<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

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-001	Date Collected:	03.09.20 12.51	Sample Depth:	1 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1150**	49.7	mg/kg	03.10.20 15.52		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.10.20 20.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.20 20.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.20 20.45	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.10.20 20.45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.10.20 20.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	03.10.20 20.45	
o-Terphenyl	84-15-1	106	%	70-135	03.10.20 20.45	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-001	Date Collected:	03.09.20 12.51	Sample Depth:	1 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 10.30	Basis:	Wet Weight
Seq Number:	3119165				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.10.20 19.26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.10.20 19.26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.10.20 19.26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.10.20 19.26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.10.20 19.26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.10.20 19.26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.10.20 19.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.10.20 19.26	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 19.26	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-002	Date Collected:	03.09.20 09.39	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2650**	50.3	mg/kg	03.10.20 15.57		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.10.20 21.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.10.20 21.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.10.20 21.06	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.10.20 21.06	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.10.20 21.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	03.10.20 21.06	
o-Terphenyl	84-15-1	105	%	70-135	03.10.20 21.06	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-002	Date Collected:	03.09.20 09.39	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 10.30	Basis:	Wet Weight
Seq Number:	3119165				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.10.20 19.46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.10.20 19.46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.10.20 19.46	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.10.20 19.46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.10.20 19.46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.10.20 19.46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.10.20 19.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	03.10.20 19.46	
1,4-Difluorobenzene	540-36-3	109	%	70-130	03.10.20 19.46	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW04A**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-003	Date Collected:	03.09.20 09.41	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4620**	49.7	mg/kg	03.10.20 16.15		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.10.20 21.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.10.20 21.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.10.20 21.26	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.10.20 21.26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.10.20 21.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	03.10.20 21.26	
o-Terphenyl	84-15-1	115	%	70-135	03.10.20 21.26	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW04A**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-003	Date Collected:	03.09.20 09.41	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 10.30	Basis:	Wet Weight
Seq Number:	3119165				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.10.20 20.07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.10.20 20.07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.10.20 20.07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.10.20 20.07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.10.20 20.07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.10.20 20.07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.10.20 20.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.10.20 20.07	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 20.07	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW05**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-004	Date Collected:	03.09.20 09.43	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3150**	49.9	mg/kg	03.10.20 16.21		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.10.20 21.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.10.20 21.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.10.20 21.46	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.10.20 21.46	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.10.20 21.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	03.10.20 21.46	
o-Terphenyl	84-15-1	114	%	70-135	03.10.20 21.46	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW05**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-004	Date Collected:	03.09.20 09.43	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 10.30	Basis:	Wet Weight
Seq Number:	3119165				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.10.20 20.27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.10.20 20.27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.10.20 20.27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.10.20 20.27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.10.20 20.27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.10.20 20.27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.10.20 20.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.10.20 20.27	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 20.27	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW05A**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-005	Date Collected:	03.09.20 09.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1850**	50.4	mg/kg	03.10.20 16.28		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.10.20 22.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.10.20 22.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.10.20 22.07	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.10.20 22.07	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.10.20 22.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	03.10.20 22.07	
o-Terphenyl	84-15-1	117	%	70-135	03.10.20 22.07	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW05A**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-005	Date Collected:	03.09.20 09.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 10.30	Basis:	Wet Weight
Seq Number:	3119165				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.10.20 20.48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.10.20 20.48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.10.20 20.48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.10.20 20.48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.10.20 20.48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.10.20 20.48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.10.20 20.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 20.48	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.10.20 20.48	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-006	Date Collected:	03.09.20 13.45	Sample Depth:	1 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1230**	49.8	mg/kg	03.10.20 16.34		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.10.20 15.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.10.20 15.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.10.20 15.50	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.10.20 15.50	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.10.20 15.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.10.20 15.50	
o-Terphenyl	84-15-1	101	%	70-135	03.10.20 15.50	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-006	Date Collected:	03.09.20 13.45	Sample Depth:	1 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.00	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	03.10.20 23.51	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.10.20 23.51	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.10.20 23.51	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.10.20 23.51	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.10.20 23.51	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.10.20 23.51	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.10.20 23.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.10.20 23.51	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.10.20 23.51	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-007	Date Collected:	03.09.20 14.31	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1490**	49.9	mg/kg	03.10.20 16.52		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.10.20 22.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.10.20 22.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.10.20 22.27	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.10.20 22.27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.10.20 22.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	03.10.20 22.27	
o-Terphenyl	84-15-1	107	%	70-135	03.10.20 22.27	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-007	Date Collected:	03.09.20 14.31	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.00	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.11.20 00.12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.11.20 00.12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.11.20 00.12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.11.20 00.12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.11.20 00.12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.11.20 00.12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.11.20 00.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	03.11.20 00.12	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 00.12	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-008	Date Collected:	03.09.20 14.35	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1630**	50.0	mg/kg	03.10.20 16.58		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.10.20 22.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.10.20 22.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.10.20 22.47	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.10.20 22.47	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.10.20 22.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	03.10.20 22.47	
o-Terphenyl	84-15-1	117	%	70-135	03.10.20 22.47	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-008	Date Collected:	03.09.20 14.35	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.00	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 00.32	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.11.20 00.32	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.11.20 00.32	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.11.20 00.32	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.11.20 00.32	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.11.20 00.32	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.11.20 00.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.11.20 00.32	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 00.32	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS09S**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-009	Date Collected:	03.09.20 14.38	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1340**	49.6	mg/kg	03.10.20 17.04		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.10.20 14.30	Basis:	Wet Weight
Seq Number:	3119191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.10.20 18.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.10.20 18.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.10.20 18.23	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.10.20 18.23	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.10.20 18.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	03.10.20 18.23	
o-Terphenyl	84-15-1	109	%	70-135	03.10.20 18.23	

Certificate of Analytical Results 655094

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS09S**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655094-009	Date Collected:	03.09.20 14.38	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.00	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 00.52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.11.20 00.52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.11.20 00.52	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.11.20 00.52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.11.20 00.52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.11.20 00.52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.11.20 00.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	03.11.20 00.52	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 00.52	

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: 9/21/2022 2:36:52 PM

QC Summary 655094

LT Environmental, Inc.

Indian Flats Bass Federal (3213/3208)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119171 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698481-1-BLK — LCS Sample Id: 7698481-1-BKS — LCSD Sample Id: 7698481-1-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	263	105	90-110	2	20	mg/kg	03.10.20 14:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119171 — Matrix: Soil — Date Prep: 03.10.20
Parent Sample Id: 655093-006 — MS Sample Id: 655093-006 S — MSD Sample Id: 655093-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	203	199	421	110	404	101	90-110	4	20	mg/kg	03.10.20 14:56	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119171 — Matrix: Soil — Date Prep: 03.10.20
Parent Sample Id: 655094-002 — MS Sample Id: 655094-002 S — MSD Sample Id: 655094-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2650	201	2840	95	2850	100	90-110	0	20	mg/kg	03.10.20 16:03	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119191 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698527-1-BLK — LCS Sample Id: 7698527-1-BKS — LCSD Sample Id: 7698527-1-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	830	83	1100	110	70-135	28	35	mg/kg	03.10.20 15:03	
Diesel Range Organics (DRO)	<50.0	1000	833	83	1060	106	70-135	24	35	mg/kg	03.10.20 15:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		110		118		70-135	%	03.10.20 15:03
o-Terphenyl	106		105		124		70-135	%	03.10.20 15:03

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119191 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698527-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.10.20 14:43	

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 655094

LT Environmental, Inc.

Indian Flats Bass Federal (3213/3208)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119191 — 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
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1050	105	904	90	70-135	15	35	mg/kg	03.10.20 16:11	
Diesel Range Organics (DRO)	<49.8	996	1030	103	972	97	70-135	6	35	mg/kg	03.10.20 16:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		120		70-135	%	03.10.20 16:11
o-Terphenyl	121		104		70-135	%	03.10.20 16:11

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3119165 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698474-1-BLK — LCS Sample Id: 7698474-1-BKS — LCSD Sample Id: 7698474-1-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	0.111	111	70-130	1	35	mg/kg	03.10.20 11:57	
Toluene	<0.00200	0.100	0.106	106	0.108	108	70-130	2	35	mg/kg	03.10.20 11:57	
Ethylbenzene	<0.00200	0.100	0.101	101	0.103	103	71-129	2	35	mg/kg	03.10.20 11:57	
m,p-Xylenes	<0.00400	0.200	0.209	105	0.213	107	70-135	2	35	mg/kg	03.10.20 11:57	
o-Xylene	<0.00200	0.100	0.104	104	0.106	106	71-133	2	35	mg/kg	03.10.20 11:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		108		108		70-130	%	03.10.20 11:57
4-Bromofluorobenzene	98		94		92		70-130	%	03.10.20 11:57

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

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 655094

LT Environmental, Inc.

Indian Flats Bass Federal (3213/3208)

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3119165 Matrix: Soil Date Prep: 03.10.20

Parent Sample Id: 655087-001 MS Sample Id: 655087-001 S MSD Sample Id: 655087-001 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	0.113	114	0.115	116	70-130	2	35	mg/kg	03.10.20 12:38	
Toluene	<0.00198	0.0992	0.110	111	0.112	113	70-130	2	35	mg/kg	03.10.20 12:38	
Ethylbenzene	<0.00198	0.0992	0.106	107	0.107	108	71-129	1	35	mg/kg	03.10.20 12:38	
m,p-Xylenes	<0.00397	0.198	0.219	111	0.220	111	70-135	0	35	mg/kg	03.10.20 12:38	
o-Xylene	<0.00198	0.0992	0.108	109	0.109	110	71-133	1	35	mg/kg	03.10.20 12:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		108		70-130	%	03.10.20 12:38
4-Bromofluorobenzene	95		92		70-130	%	03.10.20 12:38

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 339 of 744

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: 605 094

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:	
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:	Indian Flats Bass Federal (3212/3208)	Turn Around	
Project Number:	12917061	Routine	☑
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.2	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:	9

ANALYSIS REQUEST

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
SW03	s	3/9/2020	12:51	1-4'	1	x	x	x	Composite
SW04	s	3/9/2020	9:39	2'	1	x	x	x	Discrete
SW04A	s	3/9/2020	9:41	4'	1	x	x	x	Discrete
SW05	s	3/9/2020	9:43	2'	1	x	x	x	Discrete
SW05A	s	3/9/2020	9:45	4'	1	x	x	x	Discrete
SW06	s	3/9/2020	13:45	1-4'	1	x	x	x	Composite
FS07	s	3/9/2020	14:31	4'	1	x	x	x	Composite
FS08	s	3/9/2020	14:35	4'	1	x	x	x	Composite
FS09	s	3/9/2020	14:38	4'	1	x	x	x	Composite

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			3/10/20 @0830	2		3/10/20 08:45
				4		
				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Released to Imaging: 9/21/2022 2:36:52 PM
Final 1.000
Page 29 of 30

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.10.2020 08.45.00 AM

Work Order #: 655094

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
#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: 03.10.2020

Checklist reviewed by: Jessica Kramer Date: 03.10.2020

Jessica Kramer

Analytical Report 655239

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal (3213/3208)

012917061

13-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: 9/21/2022 2:36:52 PM

13-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **655239**
Indian Flats Bass Federal (3213/3208)
Project Address: Eddy

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) 655239. 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. 655239 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: 9/21/2022 2:36:52 PM

Sample Cross Reference 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS10	S	03-10-20 12:32	1.5 ft	655239-001
FS11	S	03-10-20 12:38	1.5 ft	655239-002
FS12	S	03-10-20 12:42	1.5 ft	655239-003
FS13	S	03-10-20 12:45	1.5 ft	655239-004
FS14	S	03-10-20 12:50	1.5 ft	655239-005
FS15	S	03-10-20 12:52	1.5 ft	655239-006
FS16	S	03-10-20 14:29	1.5 ft	655239-007
SW07	S	03-10-20 14:30	1 - 4 ft	655239-008

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal (3213/3208)

Project ID: *012917061*
Work Order Number(s): *655239*

Report Date: *13-MAR-20*
Date Received: *03/10/2020*

Sample receipt non conformances and comments:

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.

Batch: LBA-3119173 Chloride by EPA 300
Lab Sample ID 655239-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 655239-001, -002, -003, -004, -005, -006, -007, -008. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 655239

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal (3213/3208)

Project Id: 012917061
Contact: Dan Moir
Project Location: Eddy

Date Received in Lab: Tue Mar-10-20 04:40 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	655239-001		655239-002		655239-003		655239-004		655239-005		655239-006	
	Field Id:	FS10		FS11		FS12		FS13		FS14		FS15	
	Depth:	1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-10-20 12:32		Mar-10-20 12:38		Mar-10-20 12:42		Mar-10-20 12:45		Mar-10-20 12:50		Mar-10-20 12:52	
BTEX by EPA 8021B	***Extracted:***	Mar-10-20 17:30		Mar-10-20 17:30		Mar-10-20 17:30		Mar-10-20 17:30		Mar-10-20 17:30		Mar-10-20 17:30	
	Analyzed:	Mar-11-20 04:16		Mar-11-20 04:37		Mar-11-20 04:57		Mar-11-20 05:18		Mar-11-20 05:38		Mar-11-20 05:59	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Mar-10-20 18:00		Mar-10-20 18:00		Mar-10-20 18:00		Mar-10-20 18:00		Mar-10-20 18:00		Mar-10-20 18:00	
	Analyzed:	Mar-10-20 21:12		Mar-10-20 21:32		Mar-10-20 21:38		Mar-10-20 21:45		Mar-10-20 21:51		Mar-10-20 22:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		315 X	9.98	355	9.96	537	10.0	265	10.0	229	10.0	171	9.98
TPH by SW8015 Mod	***Extracted:***	Mar-10-20 17:10		Mar-10-20 17:10		Mar-10-20 17:10		Mar-10-20 17:10		Mar-10-20 17:10		Mar-10-20 17:10	
	Analyzed:	Mar-11-20 03:12		Mar-11-20 03:32		Mar-11-20 03:52		Mar-11-20 04:13		Mar-11-20 03:52		Mar-11-20 04:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.2	50.2
Diesel Range Organics (DRO)		<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.2	50.2
Total GRO-DRO		<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.2	50.2
Total TPH		<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<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 Manager

Final 1.000

Certificate of Analysis Summary 655239

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal (3213/3208)

Project Id: 012917061
Contact: Dan Moir
Project Location: Eddy

Date Received in Lab: Tue Mar-10-20 04:40 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	655239-007		655239-008					
	Field Id:	FS16		SW07					
	Depth:	1.5- ft		1-4 ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Mar-10-20 14:29		Mar-10-20 14:30					
BTEX by EPA 8021B	***Extracted:***	Mar-10-20 17:30		Mar-10-20 17:30					
	Analyzed:	Mar-11-20 06:19		Mar-11-20 06:39					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200				
Toluene		<0.00200	0.00200	<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200				
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400				
o-Xylene		<0.00200	0.00200	<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200				
Total BTEX		<0.00200	0.00200	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Mar-10-20 18:00		Mar-10-20 18:00					
	Analyzed:	Mar-10-20 22:17		Mar-10-20 22:24					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		814	9.92	579	9.98				
TPH by SW8015 Mod	***Extracted:***	Mar-10-20 17:10		Mar-10-20 17:10					
	Analyzed:	Mar-11-20 04:33		Mar-11-20 04:53					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8				
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8				
Total GRO-DRO		<50.2	50.2	<49.8	49.8				
Total TPH		<50.2	50.2	<49.8	49.8				

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 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS10**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-001	Date Collected:	03.10.20 12.32	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**315**	9.98	mg/kg	03.10.20 21.12	X	1

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:	3119180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.11.20 03.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.11.20 03.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.11.20 03.12	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.11.20 03.12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.11.20 03.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	03.11.20 03.12	
o-Terphenyl	84-15-1	104	%	70-135	03.11.20 03.12	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS10**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-001	Date Collected:	03.10.20 12.32	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 04.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 04.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 04.16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 04.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 04.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 04.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 04.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.11.20 04.16	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 04.16	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS11**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-002	Date Collected:	03.10.20 12.38	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**355**	9.96	mg/kg	03.10.20 21.32		1

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:	3119180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.11.20 03.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.11.20 03.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.11.20 03.32	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.11.20 03.32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.11.20 03.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	03.11.20 03.32	
o-Terphenyl	84-15-1	99	%	70-135	03.11.20 03.32	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS11**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-002	Date Collected:	03.10.20 12.38	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 04.37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 04.37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 04.37	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 04.37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 04.37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 04.37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 04.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	03.11.20 04.37	
4-Bromofluorobenzene	460-00-4	98	%	70-130	03.11.20 04.37	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-003	Date Collected:	03.10.20 12.42	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**537**	10.0	mg/kg	03.10.20 21.38		1

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	<49.9	49.9	mg/kg	03.11.20 03.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.11.20 03.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.11.20 03.52	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.11.20 03.52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.11.20 03.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	03.11.20 03.52	
o-Terphenyl	84-15-1	112	%	70-135	03.11.20 03.52	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-003	Date Collected:	03.10.20 12.42	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 04.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 04.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 04.57	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 04.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 04.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 04.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 04.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	03.11.20 04.57	
1,4-Difluorobenzene	540-36-3	110	%	70-130	03.11.20 04.57	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-004	Date Collected:	03.10.20 12.45	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**265**	10.0	mg/kg	03.10.20 21.45		1

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	<49.8	49.8	mg/kg	03.11.20 04.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.11.20 04.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.11.20 04.13	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	03.11.20 04.13	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.11.20 04.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	03.11.20 04.13	
o-Terphenyl	84-15-1	105	%	70-135	03.11.20 04.13	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-004	Date Collected:	03.10.20 12.45	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 05.18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 05.18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 05.18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 05.18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 05.18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 05.18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 05.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.11.20 05.18	
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.11.20 05.18	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-005	Date Collected:	03.10.20 12.50	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**229**	10.0	mg/kg	03.10.20 21.51		1

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:	3119180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.11.20 03.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.11.20 03.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.11.20 03.52	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.11.20 03.52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.11.20 03.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	03.11.20 03.52	
o-Terphenyl	84-15-1	101	%	70-135	03.11.20 03.52	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-005	Date Collected:	03.10.20 12.50	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 05.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 05.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 05.38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 05.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 05.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 05.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 05.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.11.20 05.38	
1,4-Difluorobenzene	540-36-3	107	%	70-130	03.11.20 05.38	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-006	Date Collected:	03.10.20 12.52	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**171**	9.98	mg/kg	03.10.20 22.11		1

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:	3119180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.11.20 04.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.11.20 04.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.11.20 04.13	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.11.20 04.13	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.11.20 04.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	03.11.20 04.13	
o-Terphenyl	84-15-1	100	%	70-135	03.11.20 04.13	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-006	Date Collected:	03.10.20 12.52	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 05.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 05.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 05.59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 05.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 05.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 05.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 05.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	03.11.20 05.59	
1,4-Difluorobenzene	540-36-3	106	%	70-130	03.11.20 05.59	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-007	Date Collected:	03.10.20 14.29	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**814**	9.92	mg/kg	03.10.20 22.17		1

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	<50.2	50.2	mg/kg	03.11.20 04.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.11.20 04.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.11.20 04.33	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.11.20 04.33	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.11.20 04.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	03.11.20 04.33	
o-Terphenyl	84-15-1	111	%	70-135	03.11.20 04.33	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-007	Date Collected:	03.10.20 14.29	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 06.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 06.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 06.19	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 06.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 06.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 06.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 06.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.11.20 06.19	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 06.19	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW07**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-008	Date Collected:	03.10.20 14.30	Sample Depth:	1 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**579**	9.98	mg/kg	03.10.20 22.24		1

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	<49.8	49.8	mg/kg	03.11.20 04.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.11.20 04.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.11.20 04.53	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	03.11.20 04.53	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.11.20 04.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	03.11.20 04.53	
o-Terphenyl	84-15-1	112	%	70-135	03.11.20 04.53	

Certificate of Analytical Results 655239

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3213/3208)

Sample Id:	**SW07**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655239-008	Date Collected:	03.10.20 14.30	Sample Depth:	1 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 06.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 06.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 06.39	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 06.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 06.39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 06.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 06.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 06.39	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.11.20 06.39	

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: 9/21/2022 2:36:52 PM

QC Summary 655239

LT Environmental, Inc.

Indian Flats Bass Federal (3213/3208)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119173 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698539-1-BLK — LCS Sample Id: 7698539-1-BKS — LCSD Sample Id: 7698539-1-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	259	104	90-110	0	20	mg/kg	03.10.20 20:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119173 — Matrix: Soil — Date Prep: 03.10.20
Parent Sample Id: 655239-001 — MS Sample Id: 655239-001 S — MSD Sample Id: 655239-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	200	529	107	536	112	90-110	1	20	mg/kg	03.10.20 21:19	X

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3119180 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698553-1-BLK — LCS Sample Id: 7698553-1-BKS — LCSD Sample Id: 7698553-1-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	967	97	938	94	70-135	3	35	mg/kg	03.11.20 01:10	
Diesel Range Organics (DRO)	<50.0	1000	943	94	944	94	70-135	0	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	97		113		104		70-135	%	03.11.20 01:10
o-Terphenyl	110		114		108		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 — 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

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 655239

LT Environmental, Inc.

Indian Flats Bass Federal (3213/3208)

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119180
Matrix: Solid
MB Sample Id: 7698553-1-BLK
Prep Method: SW8015P
Date Prep: 03.10.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.11.20 00:49	

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119195
Matrix: Solid
MB Sample Id: 7698558-1-BLK
Prep Method: SW8015P
Date Prep: 03.10.20

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.11.20 00:49	

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119180
Parent Sample Id: 655210-002
Matrix: Soil
MS Sample Id: 655210-002 S
MSD Sample Id: 655210-002 SD
Prep Method: SW8015P
Date Prep: 03.10.20

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)	75.6	1010	929	84	928	85	70-135	0	35	mg/kg	03.11.20 02:11	
Diesel Range Organics (DRO)	1310	1010	2050	73	2220	91	70-135	8	35	mg/kg	03.11.20 02:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		110		70-135	%	03.11.20 02:11
o-Terphenyl	112		110		70-135	%	03.11.20 02:11

Analytical Method: TPH by SW8015 Mod
Seq Number: 3119195
Parent Sample Id: 655230-001
Matrix: Soil
MS Sample Id: 655230-001 S
MSD Sample Id: 655230-001 SD
Prep Method: SW8015P
Date Prep: 03.10.20

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

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

QC Summary 655239

LT Environmental, Inc.

Indian Flats Bass Federal (3213/3208)

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 367 of 744

Chain of Custody

Work Order No: 655239

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 ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal (3212/3208)	Turn Around	
Project Number:	12917061	Routine	☑
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	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:	8	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
FS10	s	3/10/2020	12:32	1.5'	1	x	x	x	Composite
FS11	s	3/10/2020	12:38	1.5'	1	x	x	x	Composite
FS12	s	3/10/2020	12:42	1.5'	1	x	x	x	Composite
FS13	s	3/10/2020	12:45	1.5'	1	x	x	x	Composite
FS14	s	3/10/2020	12:50	1.5'	1	x	x	x	Composite
FS15	s	3/10/2020	12:52	1.5'	1	x	x	x	Composite
FS16	s	3/10/2020	14:29	1.5'	1	x	x	x	Composite
SW07	s	3/10/2020	14:30	1-4'	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
		3/10/20 16:40	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 27 of 28
Released to Imaging: 9/21/2022 2:36:52 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.10.2020 04.40.00 PM

Work Order #: 655239

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?	**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: Martha Castro Date: 03.10.2020

Checklist reviewed by: Jessica Kramer Date: 03.13.2020

Jessica Kramer

Analytical Report 656669

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal

012919030

25-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: 9/21/2022 2:36:52 PM

25-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **656669**
Indian Flats Bass Federal
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) 656669. 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. 656669 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: 9/21/2022 2:36:52 PM

Sample Cross Reference 656669

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW08	S	03-18-20 14:15	0 - 4 ft	656669-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal

Project ID: *012919030*
Work Order Number(s): *656669*

Report Date: *25-MAR-20*
Date Received: *03/24/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3120853 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 656669

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal

Project Id: 012919030
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Mar-24-20 01:40 pm
Report Date: 25-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	656669-001					
	Field Id:	SW08					
	Depth:	0-4 ft					
	Matrix:	SOIL					
	Sampled:	Mar-18-20 14:15					
BTEX by EPA 8021B	***Extracted:***	Mar-24-20 14:37					
	Analyzed:	Mar-24-20 18:11					
	Units/RL:	mg/kg	RL				
Benzene		<0.00198	0.00198				
Toluene		<0.00198	0.00198				
Ethylbenzene		<0.00198	0.00198				
m,p-Xylenes		<0.00395	0.00395				
o-Xylene		<0.00198	0.00198				
Total Xylenes		<0.00198	0.00198				
Total BTEX		<0.00198	0.00198				
Chloride by EPA 300	***Extracted:***	Mar-24-20 14:51					
	Analyzed:	Mar-24-20 16:12					
	Units/RL:	mg/kg	RL				
Chloride		450	10.1				
TPH by SW8015 Mod	***Extracted:***	Mar-24-20 17:20					
	Analyzed:	Mar-24-20 18:48					
	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

Final 1.000

Certificate of Analytical Results 656669

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal

Sample Id:	**SW08**	Matrix:	Soil	Date Received:	03.24.20 13.40
Lab Sample Id:	656669-001	Date Collected:	03.18.20 14.15	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.24.20 14.51	Basis:	Wet Weight
Seq Number:	3120867				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**450**	10.1	mg/kg	03.24.20 16.12		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.24.20 17.20	Basis:	Wet Weight
Seq Number:	3120791				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.24.20 18.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.24.20 18.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.24.20 18.48	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.24.20 18.48	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.24.20 18.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	03.24.20 18.48	
o-Terphenyl	84-15-1	112	%	70-135	03.24.20 18.48	

Certificate of Analytical Results 656669

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal

Sample Id:	**SW08**	Matrix:	Soil	Date Received:	03.24.20 13.40
Lab Sample Id:	656669-001	Date Collected:	03.18.20 14.15	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.24.20 14.37	Basis:	Wet Weight
Seq Number:	3120853				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.24.20 18.11	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.24.20 18.11	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.24.20 18.11	U	1
m,p-Xylenes	179601-23-1	<0.00395	0.00395	mg/kg	03.24.20 18.11	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.24.20 18.11	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.24.20 18.11	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.24.20 18.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	03.24.20 18.11	
1,4-Difluorobenzene	540-36-3	112	%	70-130	03.24.20 18.11	

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: 9/21/2022 2:36:52 PM

QC Summary 656669

LT Environmental, Inc.

Indian Flats Bass Federal

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120867 — Matrix: Solid — Date Prep: 03.24.20
MB Sample Id: 7699626-1-BLK — LCS Sample Id: 7699626-1-BKS — LCSD Sample Id: 7699626-1-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	256	102	263	105	90-110	3	20	mg/kg	03.24.20 15:38	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120867 — Matrix: Soil — Date Prep: 03.24.20
Parent Sample Id: 656666-001 — MS Sample Id: 656666-001 S — MSD Sample Id: 656666-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	688	200	892	102	876	96	90-110	2	20	mg/kg	03.24.20 15:55	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120867 — Matrix: Soil — Date Prep: 03.24.20
Parent Sample Id: 656670-008 — MS Sample Id: 656670-008 S — MSD Sample Id: 656670-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2150	201	2350	100	2350	100	90-110	0	20	mg/kg	03.24.20 17:14	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120791 — Matrix: Solid — Date Prep: 03.24.20
MB Sample Id: 7699645-1-BLK — LCS Sample Id: 7699645-1-BKS — LCSD Sample Id: 7699645-1-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	1010	101	1050	105	70-135	4	35	mg/kg	03.24.20 13:44	
Diesel Range Organics (DRO)	<50.0	1000	1100	110	1140	114	70-135	4	35	mg/kg	03.24.20 13:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		124		128		70-135	%	03.24.20 13:44
o-Terphenyl	105		121		127		70-135	%	03.24.20 13:44

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3120791 — Matrix: Solid — Date Prep: 03.24.20
MB Sample Id: 7699645-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.24.20 13:24	

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 656669

LT Environmental, Inc.

Indian Flats Bass Federal

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3120791 | Matrix: Soil | Date Prep: 03.24.20
Parent Sample Id: 656458-132 | MS Sample Id: 656458-132 S | MSD Sample Id: 656458-132 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	965	97	904	90	70-135	7	35	mg/kg	03.24.20 15:24	
Diesel Range Organics (DRO)	<50.1	1000	1130	113	1030	103	70-135	9	35	mg/kg	03.24.20 15:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		116		70-135	%	03.24.20 15:24
o-Terphenyl	121		111		70-135	%	03.24.20 15:24

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3120853 | Matrix: Solid | Date Prep: 03.24.20
MB Sample Id: 7699625-1-BLK | LCS Sample Id: 7699625-1-BKS | LCSD Sample Id: 7699625-1-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	0.113	113	0.114	114	70-130	1	35	mg/kg	03.24.20 15:48	
Toluene	<0.00200	0.100	0.108	108	0.110	110	70-130	2	35	mg/kg	03.24.20 15:48	
Ethylbenzene	<0.00200	0.100	0.102	102	0.104	104	71-129	2	35	mg/kg	03.24.20 15:48	
m,p-Xylenes	<0.00400	0.200	0.210	105	0.215	108	70-135	2	35	mg/kg	03.24.20 15:48	
o-Xylene	<0.00200	0.100	0.105	105	0.108	108	71-133	3	35	mg/kg	03.24.20 15:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		108		108		70-130	%	03.24.20 15:48
4-Bromofluorobenzene	95		88		91		70-130	%	03.24.20 15:48

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3120853 | Matrix: Soil | Date Prep: 03.24.20
Parent Sample Id: 656666-001 | MS Sample Id: 656666-001 S | MSD Sample Id: 656666-001 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	0.112	112	0.118	118	70-130	5	35	mg/kg	03.24.20 16:29	
Toluene	<0.00199	0.0996	0.107	107	0.114	114	70-130	6	35	mg/kg	03.24.20 16:29	
Ethylbenzene	<0.00199	0.0996	0.101	101	0.108	108	71-129	7	35	mg/kg	03.24.20 16:29	
m,p-Xylenes	<0.00398	0.199	0.208	105	0.223	112	70-135	7	35	mg/kg	03.24.20 16:29	
o-Xylene	<0.00199	0.0996	0.104	104	0.111	111	71-133	7	35	mg/kg	03.24.20 16:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	03.24.20 16:29
4-Bromofluorobenzene	94		93		70-130	%	03.24.20 16:29

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

Page 379 of 744

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: 605469

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 ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal	Turn Around	
Project Number:	012919030	Routine	☐
P.O. Number:		Rush:	2day
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.8	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

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 0=8021)	Chloride (EPA 300.0)	Sample Comments
SW08	S	03/18/20	1415	0-4'	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

ce: 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
rvice. 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
nco. 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
		3/24/20 13:40	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Released to Imaging: 9/21/2022 2:36:52 PM
Final 1.000
Page 11 of 12

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.24.2020 01.40.00 PM

Work Order #: 656669

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**
#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: 03.24.2020

Checklist reviewed by: Jessica Kramer Date: 03.25.2020

Jessica Kramer

Analytical Report 657123

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Fed

012917061

31-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: 9/21/2022 2:36:52 PM

31-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **657123**
Indian Flats Bass Fed
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) 657123. 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. 657123 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: 9/21/2022 2:36:52 PM

Sample Cross Reference 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW09	S	03-25-20 10:10	0 - 4 ft	657123-001
SW10	S	03-25-20 10:20	0 - 4 ft	657123-002
FS17	S	03-25-20 10:30	4 ft	657123-003
FS18	S	03-25-20 10:40	4 ft	657123-004
FS19	S	03-25-20 10:45	4 ft	657123-005
FS20	S	03-25-20 11:00	4 ft	657123-006
FS21	S	03-25-20 11:10	4 ft	657123-007
FS22	S	03-25-20 11:15	4 ft	657123-008
FS23	S	03-25-20 11:20	4 ft	657123-009
SW11	S	03-25-20 11:45	2 ft	657123-010
SW11A	S	03-25-20 12:00	4 ft	657123-011

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Fed

Project ID: *012917061*
Work Order Number(s): *657123*

Report Date: *31-MAR-20*
Date Received: *03/27/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3121285 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3121287 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 657123

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Fed

Project Id: 012917061
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-27-20 09:30 am
Report Date: 31-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	657123-001		657123-002		657123-003		657123-004		657123-005		657123-006	
	Field Id:	SW09		SW10		FS17		FS18		FS19		FS20	
	Depth:	0-4 ft		0-4 ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-20 10:10		Mar-25-20 10:20		Mar-25-20 10:30		Mar-25-20 10:40		Mar-25-20 10:45		Mar-25-20 11:00	
BTEX by EPA 8021B	***Extracted:***	Mar-27-20 11:00		Mar-27-20 11:00		Mar-27-20 11:00		Mar-27-20 11:00		Mar-27-20 11:00		Mar-27-20 11:00	
	Analyzed:	Mar-27-20 19:37		Mar-27-20 19:58		Mar-27-20 20:18		Mar-27-20 20:39		Mar-27-20 20:59		Mar-27-20 21:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00403	0.00403	<0.00397	0.00397	<0.00401	0.00401	<0.00399	0.00399	<0.00402	0.00402	<0.00399	0.00399
o-Xylene		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00	
	Analyzed:	Mar-27-20 14:53		Mar-27-20 15:11		Mar-27-20 15:17		Mar-27-20 15:24		Mar-27-20 15:30		Mar-27-20 15:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		336	9.94	401	49.9	1450	50.4	1270	50.1	237	10.1	673	9.94
TPH by SW8015 Mod	***Extracted:***	Mar-27-20 17:30		Mar-27-20 17:30		Mar-27-20 17:30		Mar-27-20 17:30		Mar-27-20 17:30		Mar-27-20 17:30	
	Analyzed:	Mar-28-20 05:08		Mar-28-20 05:29		Mar-28-20 05:49		Mar-28-20 06:09		Mar-28-20 06:30		Mar-28-20 06:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.0	50.0
Diesel Range Organics (DRO)		<50.3	50.3	<50.1	50.1	173	50.2	<50.2	50.2	<50.1	50.1	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.0	50.0
Total GRO-DRO		<50.3	50.3	<50.1	50.1	173	50.2	<50.2	50.2	<50.1	50.1	<50.0	50.0
Total TPH		<50.3	50.3	<50.1	50.1	173	50.2	<50.2	50.2	<50.1	50.1	<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

Final 1.000

Certificate of Analysis Summary 657123

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Fed

Project Id: 012917061
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-27-20 09:30 am
Report Date: 31-MAR-20
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	657123-007		657123-008		657123-009		657123-010		657123-011	
	Field Id:	FS21		FS22		FS23		SW11		SW11A	
	Depth:	4- ft		4- ft		4- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-20 11:10		Mar-25-20 11:15		Mar-25-20 11:20		Mar-25-20 11:45		Mar-25-20 12:00	
BTEX by EPA 8021B	***Extracted:***	Mar-27-20 13:01		Mar-27-20 13:01		Mar-27-20 13:01		Mar-27-20 13:01		Mar-27-20 13:01	
	Analyzed:	Mar-28-20 01:04		Mar-28-20 01:24		Mar-28-20 01:44		Mar-28-20 02:05		Mar-28-20 02:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00	
	Analyzed:	Mar-27-20 16:01		Mar-27-20 16:07		Mar-27-20 16:13		Mar-27-20 16:19		Mar-27-20 16:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		971	49.8	1570	49.9	2980	49.9	240	9.92	781	9.98
TPH by SW8015 Mod	***Extracted:***	Mar-27-20 17:30		Mar-27-20 17:30		Mar-27-20 18:00		Mar-27-20 18:00		Mar-27-20 18:00	
	Analyzed:	Mar-28-20 07:10		Mar-28-20 07:30		Mar-28-20 09:52		Mar-28-20 16:39		Mar-28-20 10:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.3	50.3	<50.0	50.0	<50.2	50.2	<50.0	50.0
Diesel Range Organics (DRO)		<50.2	50.2	<50.3	50.3	<50.0	50.0	68.0	50.2	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.3	50.3	<50.0	50.0	<50.2	50.2	<50.0	50.0
Total GRO-DRO		<50.2	50.2	<50.3	50.3	<50.0	50.0	68.0	50.2	<50.0	50.0
Total TPH		<50.2	50.2	<50.3	50.3	<50.0	50.0	68.0	50.2	<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

Final 1.000

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-001	Date Collected:	03.25.20 10.10	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**336**	9.94	mg/kg	03.27.20 14.53		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.28.20 05.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.28.20 05.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.28.20 05.08	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.28.20 05.08	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.28.20 05.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	03.28.20 05.08	
o-Terphenyl	84-15-1	119	%	70-135	03.28.20 05.08	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-001	Date Collected:	03.25.20 10.10	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 11.00	Basis:	Wet Weight
Seq Number:	3121285				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.27.20 19.37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.27.20 19.37	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.27.20 19.37	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.27.20 19.37	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.27.20 19.37	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.27.20 19.37	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.27.20 19.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.27.20 19.37	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.27.20 19.37	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW10**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-002	Date Collected:	03.25.20 10.20	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**401**	49.9	mg/kg	03.27.20 15.11		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.28.20 05.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.28.20 05.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.28.20 05.29	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.28.20 05.29	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.28.20 05.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	03.28.20 05.29	
o-Terphenyl	84-15-1	119	%	70-135	03.28.20 05.29	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW10**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-002	Date Collected:	03.25.20 10.20	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 11.00	Basis:	Wet Weight
Seq Number:	3121285				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.27.20 19.58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.27.20 19.58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.27.20 19.58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.27.20 19.58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.27.20 19.58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.27.20 19.58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.27.20 19.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.27.20 19.58	
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.27.20 19.58	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-003	Date Collected:	03.25.20 10.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1450**	50.4	mg/kg	03.27.20 15.17		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.28.20 05.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**173**	50.2	mg/kg	03.28.20 05.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.28.20 05.49	U	1
Total GRO-DRO	PHC628	**173**	50.2	mg/kg	03.28.20 05.49		1
Total TPH	PHC635	**173**	50.2	mg/kg	03.28.20 05.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	03.28.20 05.49	
o-Terphenyl	84-15-1	121	%	70-135	03.28.20 05.49	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-003	Date Collected:	03.25.20 10.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 11.00	Basis:	Wet Weight
Seq Number:	3121285				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.27.20 20.18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.27.20 20.18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.27.20 20.18	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.27.20 20.18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.27.20 20.18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.27.20 20.18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.27.20 20.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.27.20 20.18	
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.27.20 20.18	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-004	Date Collected:	03.25.20 10.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1270**	50.1	mg/kg	03.27.20 15.24		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.28.20 06.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.28.20 06.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.28.20 06.09	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.28.20 06.09	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.28.20 06.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	03.28.20 06.09	
o-Terphenyl	84-15-1	114	%	70-135	03.28.20 06.09	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-004	Date Collected:	03.25.20 10.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 11.00	Basis:	Wet Weight
Seq Number:	3121285				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.27.20 20.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.27.20 20.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.27.20 20.39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.27.20 20.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.27.20 20.39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.27.20 20.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.27.20 20.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.27.20 20.39	
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.27.20 20.39	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-005	Date Collected:	03.25.20 10.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**237**	10.1	mg/kg	03.27.20 15.30		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.28.20 06.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.28.20 06.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.28.20 06.30	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.28.20 06.30	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.28.20 06.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	03.28.20 06.30	
o-Terphenyl	84-15-1	126	%	70-135	03.28.20 06.30	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-005	Date Collected:	03.25.20 10.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 11.00	Basis:	Wet Weight
Seq Number:	3121285				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.27.20 20.59	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.27.20 20.59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.27.20 20.59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.27.20 20.59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.27.20 20.59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.27.20 20.59	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.27.20 20.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.27.20 20.59	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.27.20 20.59	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS20**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-006	Date Collected:	03.25.20 11.00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**673**	9.94	mg/kg	03.27.20 15.55		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.28.20 06.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.28.20 06.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.28.20 06.50	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.28.20 06.50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.28.20 06.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	03.28.20 06.50	
o-Terphenyl	84-15-1	131	%	70-135	03.28.20 06.50	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS20**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-006	Date Collected:	03.25.20 11.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 11.00	Basis:	Wet Weight
Seq Number:	3121285				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.27.20 21.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.27.20 21.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.27.20 21.19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.27.20 21.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.27.20 21.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.27.20 21.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.27.20 21.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.27.20 21.19	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.27.20 21.19	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS21**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-007	Date Collected:	03.25.20 11.10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**971**	49.8	mg/kg	03.27.20 16.01		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.28.20 07.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.28.20 07.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.28.20 07.10	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.28.20 07.10	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.28.20 07.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	03.28.20 07.10	
o-Terphenyl	84-15-1	130	%	70-135	03.28.20 07.10	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS21**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-007	Date Collected:	03.25.20 11.10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.28.20 01.04	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.28.20 01.04	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.28.20 01.04	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.28.20 01.04	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.28.20 01.04	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.28.20 01.04	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.28.20 01.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.28.20 01.04	
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.28.20 01.04	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS22**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-008	Date Collected:	03.25.20 11.15	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1570**	49.9	mg/kg	03.27.20 16.07		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 17.30	Basis:	Wet Weight
Seq Number:	3121273				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.28.20 07.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.28.20 07.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.28.20 07.30	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.28.20 07.30	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.28.20 07.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	03.28.20 07.30	
o-Terphenyl	84-15-1	128	%	70-135	03.28.20 07.30	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS22**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-008	Date Collected:	03.25.20 11.15	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.28.20 01.24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.28.20 01.24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.28.20 01.24	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.28.20 01.24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.28.20 01.24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.28.20 01.24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.28.20 01.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.28.20 01.24	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.28.20 01.24	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS23**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-009	Date Collected:	03.25.20 11.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2980**	49.9	mg/kg	03.27.20 16.13		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.28.20 09.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.28.20 09.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.28.20 09.52	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.28.20 09.52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.28.20 09.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	03.28.20 09.52	
o-Terphenyl	84-15-1	92	%	70-135	03.28.20 09.52	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**FS23**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-009	Date Collected:	03.25.20 11.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.28.20 01.44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.28.20 01.44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.28.20 01.44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.28.20 01.44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.28.20 01.44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.28.20 01.44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.28.20 01.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.28.20 01.44	
1,4-Difluorobenzene	540-36-3	117	%	70-130	03.28.20 01.44	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW11**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-010	Date Collected:	03.25.20 11.45	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**240**	9.92	mg/kg	03.27.20 16.19		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.28.20 16.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	**68.0**	50.2	mg/kg	03.28.20 16.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.28.20 16.39	U	1
Total GRO-DRO	PHC628	**68.0**	50.2	mg/kg	03.28.20 16.39		1
Total TPH	PHC635	**68.0**	50.2	mg/kg	03.28.20 16.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	03.28.20 16.39	
o-Terphenyl	84-15-1	78	%	70-135	03.28.20 16.39	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW11**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-010	Date Collected:	03.25.20 11.45	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.28.20 02.05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.28.20 02.05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.28.20 02.05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.28.20 02.05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.28.20 02.05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.28.20 02.05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.28.20 02.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.28.20 02.05	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.28.20 02.05	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW11A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-011	Date Collected:	03.25.20 12.00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Dry Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**781**	9.98	mg/kg	03.27.20 16.25		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	03.28.20 10.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	03.28.20 10.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	03.28.20 10.53	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	03.28.20 10.53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	03.28.20 10.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.28.20 10.53	
o-Terphenyl	84-15-1	92	%	70-135	03.28.20 10.53	

Certificate of Analytical Results 657123

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**SW11A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657123-011	Date Collected:	03.25.20 12.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.28.20 02.25	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.28.20 02.25	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.28.20 02.25	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.28.20 02.25	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.28.20 02.25	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.28.20 02.25	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.28.20 02.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.28.20 02.25	
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.28.20 02.25	

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

Released to Imaging: 9/21/2022 2:36:52 PM

QC Summary 657123

LT Environmental, Inc.

Indian Flats Bass Fed

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3121337 Matrix: Solid Date Prep: 03.27.20
MB Sample Id: 7699958-1-BLK LCS Sample Id: 7699958-1-BKS LCSD Sample Id: 7699958-1-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	264	106	266	106	90-110	1	20	mg/kg	03.27.20 14:40	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3121337 Matrix: Soil Date Prep: 03.27.20
Parent Sample Id: 657123-001 MS Sample Id: 657123-001 S MSD Sample Id: 657123-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	336	199	545	105	544	105	90-110	0	20	mg/kg	03.27.20 14:59	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3121337 Matrix: Soil Date Prep: 03.27.20
Parent Sample Id: 657123-011 MS Sample Id: 657123-011 S MSD Sample Id: 657123-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	781	200	988	104	986	103	90-110	0	20	mg/kg	03.27.20 16:32	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3121273 Matrix: Solid Date Prep: 03.27.20
MB Sample Id: 7699944-1-BLK LCS Sample Id: 7699944-1-BKS LCSD Sample Id: 7699944-1-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	1020	102	961	96	70-135	6	35	mg/kg	03.27.20 23:22	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1120	112	70-135	7	35	mg/kg	03.27.20 23:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		130		122		70-135	%	03.27.20 23:22
o-Terphenyl	113		131		124		70-135	%	03.27.20 23:22

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 657123

LT Environmental, Inc.

Indian Flats Bass Fed

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121323 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7700024-1-BLK — LCS Sample Id: 7700024-1-BKS — LCSD Sample Id: 7700024-1-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	971	97	931	93	70-135	4	35	mg/kg	03.28.20 09:11	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1050	105	70-135	6	35	mg/kg	03.28.20 09:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		128		130		70-135	%	03.28.20 09:11
o-Terphenyl	125		132		126		70-135	%	03.28.20 09:11

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121273 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7699944-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.27.20 23:02	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121323 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7700024-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.28.20 08:51	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121273 — Matrix: Soil — Date Prep: 03.27.20
Parent Sample Id: 656968-023 — MS Sample Id: 656968-023 S — MSD Sample Id: 656968-023 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	1040	103	990	99	70-135	5	35	mg/kg	03.28.20 00:23	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1020	102	70-135	8	35	mg/kg	03.28.20 00:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	135		128		70-135	%	03.28.20 00:23
o-Terphenyl	118		132		70-135	%	03.28.20 00:23

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 657123

LT Environmental, Inc.

Indian Flats Bass Fed

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3121323 | Matrix: Soil | Date Prep: 03.27.20
Parent Sample Id: 657123-009 | MS Sample Id: 657123-009 S | MSD Sample Id: 657123-009 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)	<50.2	1000	886	89	937	94	70-135	6	35	mg/kg	03.28.20 10:13	
Diesel Range Organics (DRO)	<50.2	1000	829	83	875	88	70-135	5	35	mg/kg	03.28.20 10:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		120		70-135	%	03.28.20 10:13
o-Terphenyl	100		105		70-135	%	03.28.20 10:13

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3121285 | Matrix: Solid | Date Prep: 03.27.20
MB Sample Id: 7699890-1-BLK | LCS Sample Id: 7699890-1-BKS | LCSD Sample Id: 7699890-1-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	0.121	121	70-130	11	35	mg/kg	03.27.20 11:49	
Toluene	<0.00200	0.100	0.0985	99	0.125	125	70-130	24	35	mg/kg	03.27.20 11:49	
Ethylbenzene	<0.00200	0.100	0.0923	92	0.117	117	71-129	24	35	mg/kg	03.27.20 11:49	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.227	114	70-135	23	35	mg/kg	03.27.20 11:49	
o-Xylene	<0.00200	0.100	0.0903	90	0.115	115	71-133	24	35	mg/kg	03.27.20 11:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	116		109		110		70-130	%	03.27.20 11:49
4-Bromofluorobenzene	92		85		87		70-130	%	03.27.20 11:49

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3121287 | Matrix: Solid | Date Prep: 03.27.20
MB Sample Id: 7699954-1-BLK | LCS Sample Id: 7699954-1-BKS | LCSD Sample Id: 7699954-1-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	0.125	125	0.126	126	70-130	1	35	mg/kg	03.27.20 23:01	
Toluene	<0.00200	0.100	0.122	122	0.114	114	70-130	7	35	mg/kg	03.27.20 23:01	
Ethylbenzene	<0.00200	0.100	0.113	113	0.105	105	71-129	7	35	mg/kg	03.27.20 23:01	
m,p-Xylenes	<0.00400	0.200	0.220	110	0.203	102	70-135	8	35	mg/kg	03.27.20 23:01	
o-Xylene	<0.00200	0.100	0.112	112	0.104	104	71-133	7	35	mg/kg	03.27.20 23:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	116		110		110		70-130	%	03.27.20 23:01
4-Bromofluorobenzene	94		86		85		70-130	%	03.27.20 23:01

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

QC Summary 657123

LT Environmental, Inc.

Indian Flats Bass Fed

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3121285 Matrix: Soil Date Prep: 03.27.20

Parent Sample Id: 656968-018 MS Sample Id: 656968-018 S MSD Sample Id: 656968-018 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	0.122	121	0.124	123	70-130	2	35	mg/kg	03.27.20 12:29	
Toluene	<0.00202	0.101	0.111	110	0.111	110	70-130	0	35	mg/kg	03.27.20 12:29	
Ethylbenzene	<0.00202	0.101	0.104	103	0.102	101	71-129	2	35	mg/kg	03.27.20 12:29	
m,p-Xylenes	<0.00404	0.202	0.202	100	0.196	97	70-135	3	35	mg/kg	03.27.20 12:29	
o-Xylene	<0.00202	0.101	0.0998	99	0.102	101	71-133	2	35	mg/kg	03.27.20 12:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		110		70-130	%	03.27.20 12:29
4-Bromofluorobenzene	86		87		70-130	%	03.27.20 12:29

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3121287 Matrix: Soil Date Prep: 03.27.20

Parent Sample Id: 657123-007 MS Sample Id: 657123-007 S MSD Sample Id: 657123-007 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	0.125	125	0.116	116	70-130	7	35	mg/kg	03.27.20 23:42	
Toluene	<0.00200	0.100	0.113	113	0.105	105	70-130	7	35	mg/kg	03.27.20 23:42	
Ethylbenzene	<0.00200	0.100	0.105	105	0.0963	96	71-129	9	35	mg/kg	03.27.20 23:42	
m,p-Xylenes	<0.00401	0.200	0.203	102	0.187	93	70-135	8	35	mg/kg	03.27.20 23:42	
o-Xylene	<0.00200	0.100	0.103	103	0.0947	95	71-133	8	35	mg/kg	03.27.20 23:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		110		70-130	%	03.27.20 23:42
4-Bromofluorobenzene	89		89		70-130	%	03.27.20 23:42

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 414 of 744

Chain of Custody

Work Order No: 657123

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:	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:	Indian Flats Bass Fed	Turn Around	
Project Number:	01291706l	Routine	☒
P.O. Number:	2RP-3208, 2RP-3212	Rush:	
Sampler's Name:	Benjamin Belill	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:	11

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SW09	S	3/25/20	1010	0-4'	1	X	X	X	Composite
SW10			1020	0-4'		X	X	X	
FS17			1030	4'		X	X	X	
FS18			1040	4'		X	X	X	
FS19			1045	4'		X	X	X	
FS20			1100	4'		X	X	X	
FS21			1110	4'		X	X	X	
FS22			1115	4'		X	X	X	
FS23 ~~FS 23~~			1120	4'		X	X	X	
SW11	↓	↓	1145	2'	↓	X	X	X	Discrete

TAT starts the day recevied by the lab, if received by 4:30pm

Work Order Notes

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
		3/27/20@0930	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Released to Imaging: 9/21/2022 2:36:52 PM
Final 1.000
Page 34 of 36

Page 415 of 744

Chain of Custody

Work Order No: 057123

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:	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 ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Fed.	Turn Around	
Project Number:	012417061	Routine	☒
P.O. Number:	2RP-3208, 2RP-3212	Rush:	
Sampler's Name:	Benjamin Belill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
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)
SWMA	S	3/25/20	1200	4'	1	X	X	X
				BOH		3/25/20		

ANALYSIS REQUEST

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
		3/27/20 @ 0937	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 35 of 36
Released to Imaging: 9/21/2022 2:36:52 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.27.2020 09.30.00 AM

Work Order #: 657123

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?	**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: 03.27.2020

Checklist reviewed by: Jessica Kramer Date: 03.27.2020

Jessica Kramer

Analytical Report 657126

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Fed

012917061

31-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: 9/21/2022 2:36:52 PM

31-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **657126**
Indian Flats Bass Fed
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) 657126. 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. 657126 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: 9/21/2022 2:36:52 PM

Sample Cross Reference 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH08	S	03-23-20 10:20	2 ft	657126-001
PH08A	S	03-23-20 10:30	4 ft	657126-002
PH08B	S	03-23-20 10:40	6 ft	657126-003
PH09	S	03-23-20 10:50	2 ft	657126-004
PH09A	S	03-23-20 11:00	4 ft	657126-005
PH10	S	03-23-20 11:15	2 ft	657126-006
PH10A	S	03-23-20 11:20	4 ft	657126-007

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Fed

Project ID: *012917061*
Work Order Number(s): *657126*

Report Date: *31-MAR-20*
Date Received: *03/27/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3121287 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 657126

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Fed

Project Id: 012917061
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-27-20 09:30 am
Report Date: 31-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	657126-001		657126-002		657126-003		657126-004		657126-005		657126-006	
	Field Id:	PH08		PH08A		PH08B		PH09		PH09A		PH10	
	Depth:	2- ft		4- ft		6- ft		2- ft		4- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-23-20 10:20		Mar-23-20 10:30		Mar-23-20 10:40		Mar-23-20 10:50		Mar-23-20 11:00		Mar-23-20 11:15	
BTEX by EPA 8021B	***Extracted:***	Mar-27-20 13:01		Mar-27-20 13:01		Mar-27-20 13:01		Mar-27-20 13:01		Mar-27-20 13:01		Mar-27-20 13:01	
	Analyzed:	Mar-28-20 02:46		Mar-28-20 03:06		Mar-28-20 03:26		Mar-28-20 03:47		Mar-28-20 04:07		Mar-28-20 05:29	
	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	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Toluene		<0.00201	0.00201	<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Ethylbenzene		0.0126	0.00201	<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
m,p-Xylenes		0.0175	0.00402	<0.00396	0.00396	<0.00403	0.00403	<0.00404	0.00404	<0.00402	0.00402	<0.00402	0.00402
o-Xylene		0.00685	0.00201	<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Total Xylenes		0.0244	0.00201	<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Total BTEX		0.0370	0.00201	<0.00198	0.00198	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Chloride by EPA 300	***Extracted:***	Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00		Mar-27-20 13:00	
	Analyzed:	Mar-27-20 16:56		Mar-27-20 17:02		Mar-27-20 17:08		Mar-27-20 17:15		Mar-27-20 17:21		Mar-27-20 17:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1860	49.6	1850	49.9	2520	49.8	444	9.98	423	9.98	1440	49.8
TPH by SW8015 Mod	***Extracted:***	Mar-27-20 18:00		Mar-27-20 18:00		Mar-27-20 18:00		Mar-27-20 18:00		Mar-27-20 18:00		Mar-27-20 18:00	
	Analyzed:	Mar-28-20 17:20		Mar-28-20 17:00		Mar-28-20 11:13		Mar-28-20 11:34		Mar-28-20 11:54		Mar-28-20 12:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9	<50.3	50.3
Diesel Range Organics (DRO)		916	50.2	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		149	50.2	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9	<50.3	50.3
Total GRO-DRO		916	50.2	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9	<50.3	50.3
Total TPH		1070	50.2	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9	<50.3	50.3

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

Final 1.000

Certificate of Analysis Summary 657126

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Fed

Project Id: 012917061
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-27-20 09:30 am
Report Date: 31-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	657126-007					
	Field Id:	PH10A					
	Depth:	4- ft					
	Matrix:	SOIL					
	Sampled:	Mar-23-20 11:20					
BTEX by EPA 8021B	***Extracted:***	Mar-27-20 13:01					
	Analyzed:	Mar-28-20 05:49					
	Units/RL:	mg/kg	RL				
Benzene		<0.00199	0.00199				
Toluene		<0.00199	0.00199				
Ethylbenzene		<0.00199	0.00199				
m,p-Xylenes		<0.00398	0.00398				
o-Xylene		<0.00199	0.00199				
Total Xylenes		<0.00199	0.00199				
Total BTEX		<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Mar-27-20 13:00					
	Analyzed:	Mar-27-20 17:33					
	Units/RL:	mg/kg	RL				
Chloride		2370	49.6				
TPH by SW8015 Mod	***Extracted:***	Mar-27-20 18:00					
	Analyzed:	Mar-28-20 12:35					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3				
Diesel Range Organics (DRO)		<50.3	50.3				
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3				
Total GRO-DRO		<50.3	50.3				
Total TPH		<50.3	50.3				

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

Final 1.000

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH08**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-001	Date Collected:	03.23.20 10.20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1860**	49.6	mg/kg	03.27.20 16.56		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	03.28.20 17.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	**916**	50.2	mg/kg	03.28.20 17.20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**149**	50.2	mg/kg	03.28.20 17.20		1
Total GRO-DRO	PHC628	**916**	50.2	mg/kg	03.28.20 17.20		1
Total TPH	PHC635	**1070**	50.2	mg/kg	03.28.20 17.20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	03.28.20 17.20	
o-Terphenyl	84-15-1	84	%	70-135	03.28.20 17.20	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH08**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-001	Date Collected:	03.23.20 10.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.28.20 02.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.28.20 02.46	U	1
Ethylbenzene	100-41-4	**0.0126**	0.00201	mg/kg	03.28.20 02.46		1
m,p-Xylenes	179601-23-1	**0.0175**	0.00402	mg/kg	03.28.20 02.46		1
o-Xylene	95-47-6	**0.00685**	0.00201	mg/kg	03.28.20 02.46		1
Total Xylenes	1330-20-7	**0.0244**	0.00201	mg/kg	03.28.20 02.46		1
Total BTEX		**0.0370**	0.00201	mg/kg	03.28.20 02.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.28.20 02.46	
4-Bromofluorobenzene	460-00-4	83	%	70-130	03.28.20 02.46	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH08A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-002	Date Collected:	03.23.20 10.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1850**	49.9	mg/kg	03.27.20 17.02		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	03.28.20 17.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	03.28.20 17.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	03.28.20 17.00	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	03.28.20 17.00	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	03.28.20 17.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	03.28.20 17.00	
o-Terphenyl	84-15-1	86	%	70-135	03.28.20 17.00	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH08A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-002	Date Collected:	03.23.20 10.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.28.20 03.06	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.28.20 03.06	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.28.20 03.06	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.28.20 03.06	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.28.20 03.06	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.28.20 03.06	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.28.20 03.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	03.28.20 03.06	
1,4-Difluorobenzene	540-36-3	99	%	70-130	03.28.20 03.06	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH08B**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-003	Date Collected:	03.23.20 10.40	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2520**	49.8	mg/kg	03.27.20 17.08		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.28.20 11.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.28.20 11.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.28.20 11.13	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.28.20 11.13	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.28.20 11.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	03.28.20 11.13	
o-Terphenyl	84-15-1	87	%	70-135	03.28.20 11.13	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH08B**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-003	Date Collected:	03.23.20 10.40	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.28.20 03.26	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.28.20 03.26	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.28.20 03.26	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.28.20 03.26	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.28.20 03.26	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.28.20 03.26	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.28.20 03.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	03.28.20 03.26	
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.28.20 03.26	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH09**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-004	Date Collected:	03.23.20 10.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**444**	9.98	mg/kg	03.27.20 17.15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	03.28.20 11.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	03.28.20 11.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	03.28.20 11.34	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	03.28.20 11.34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	03.28.20 11.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	03.28.20 11.34	
o-Terphenyl	84-15-1	88	%	70-135	03.28.20 11.34	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH09**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-004	Date Collected:	03.23.20 10.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.28.20 03.47	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.28.20 03.47	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.28.20 03.47	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	03.28.20 03.47	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.28.20 03.47	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.28.20 03.47	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.28.20 03.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	03.28.20 03.47	
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.28.20 03.47	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH09A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-005	Date Collected:	03.23.20 11.00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**423**	9.98	mg/kg	03.27.20 17.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	03.28.20 11.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	03.28.20 11.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	03.28.20 11.54	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	03.28.20 11.54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	03.28.20 11.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.28.20 11.54	
o-Terphenyl	84-15-1	95	%	70-135	03.28.20 11.54	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH09A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-005	Date Collected:	03.23.20 11.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.28.20 04.07	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.28.20 04.07	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.28.20 04.07	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.28.20 04.07	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.28.20 04.07	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.28.20 04.07	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.28.20 04.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.28.20 04.07	
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.28.20 04.07	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH10**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-006	Date Collected:	03.23.20 11.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1440**	49.8	mg/kg	03.27.20 17.27		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.28.20 12.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.28.20 12.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.28.20 12.14	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.28.20 12.14	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.28.20 12.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	03.28.20 12.14	
o-Terphenyl	84-15-1	88	%	70-135	03.28.20 12.14	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH10**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-006	Date Collected:	03.23.20 11.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.28.20 05.29	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.28.20 05.29	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.28.20 05.29	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.28.20 05.29	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.28.20 05.29	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.28.20 05.29	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.28.20 05.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	03.28.20 05.29	
4-Bromofluorobenzene	460-00-4	92	%	70-130	03.28.20 05.29	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH10A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-007	Date Collected:	03.23.20 11.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2370**	49.6	mg/kg	03.27.20 17.33		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	03.27.20 18.00	Basis:	Wet Weight
Seq Number:	3121323				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	03.28.20 12.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	03.28.20 12.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	03.28.20 12.35	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	03.28.20 12.35	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	03.28.20 12.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-135	03.28.20 12.35	
o-Terphenyl	84-15-1	83	%	70-135	03.28.20 12.35	

Certificate of Analytical Results 657126

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Fed

Sample Id:	**PH10A**	Matrix:	Soil	Date Received:	03.27.20 09.30
Lab Sample Id:	657126-007	Date Collected:	03.23.20 11.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.01	Basis:	Wet Weight
Seq Number:	3121287				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.28.20 05.49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.28.20 05.49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.28.20 05.49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.28.20 05.49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.28.20 05.49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.28.20 05.49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.28.20 05.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	03.28.20 05.49	
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.28.20 05.49	

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: 9/21/2022 2:36:52 PM

QC Summary 657126

LT Environmental, Inc.

Indian Flats Bass Fed

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121337 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7699958-1-BLK — LCS Sample Id: 7699958-1-BKS — LCSD Sample Id: 7699958-1-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	264	106	266	106	90-110	1	20	mg/kg	03.27.20 14:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121337 — Matrix: Soil — Date Prep: 03.27.20
Parent Sample Id: 657123-001 — MS Sample Id: 657123-001 S — MSD Sample Id: 657123-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	336	199	545	105	544	105	90-110	0	20	mg/kg	03.27.20 14:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121337 — Matrix: Soil — Date Prep: 03.27.20
Parent Sample Id: 657123-011 — MS Sample Id: 657123-011 S — MSD Sample Id: 657123-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	781	200	988	104	986	103	90-110	0	20	mg/kg	03.27.20 16:32	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121323 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7700024-1-BLK — LCS Sample Id: 7700024-1-BKS — LCSD Sample Id: 7700024-1-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	971	97	931	93	70-135	4	35	mg/kg	03.28.20 09:11	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1050	105	70-135	6	35	mg/kg	03.28.20 09:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		128		130		70-135	%	03.28.20 09:11
o-Terphenyl	125		132		126		70-135	%	03.28.20 09:11

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3121323 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7700024-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	03.28.20 08:51	

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 657126

LT Environmental, Inc.

Indian Flats Bass Fed

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3121323 | Matrix: Soil | Date Prep: 03.27.20
Parent Sample Id: 657123-009 | MS Sample Id: 657123-009 S | MSD Sample Id: 657123-009 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)	<50.2	1000	886	89	937	94	70-135	6	35	mg/kg	03.28.20 10:13	
Diesel Range Organics (DRO)	<50.2	1000	829	83	875	88	70-135	5	35	mg/kg	03.28.20 10:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		120		70-135	%	03.28.20 10:13
o-Terphenyl	100		105		70-135	%	03.28.20 10:13

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3121287 | Matrix: Solid | Date Prep: 03.27.20
MB Sample Id: 7699954-1-BLK | LCS Sample Id: 7699954-1-BKS | LCSD Sample Id: 7699954-1-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	0.125	125	0.126	126	70-130	1	35	mg/kg	03.27.20 23:01	
Toluene	<0.00200	0.100	0.122	122	0.114	114	70-130	7	35	mg/kg	03.27.20 23:01	
Ethylbenzene	<0.00200	0.100	0.113	113	0.105	105	71-129	7	35	mg/kg	03.27.20 23:01	
m,p-Xylenes	<0.00400	0.200	0.220	110	0.203	102	70-135	8	35	mg/kg	03.27.20 23:01	
o-Xylene	<0.00200	0.100	0.112	112	0.104	104	71-133	7	35	mg/kg	03.27.20 23:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	116		110		110		70-130	%	03.27.20 23:01
4-Bromofluorobenzene	94		86		85		70-130	%	03.27.20 23:01

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3121287 | Matrix: Soil | Date Prep: 03.27.20
Parent Sample Id: 657123-007 | MS Sample Id: 657123-007 S | MSD Sample Id: 657123-007 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	0.125	125	0.116	116	70-130	7	35	mg/kg	03.27.20 23:42	
Toluene	<0.00200	0.100	0.113	113	0.105	105	70-130	7	35	mg/kg	03.27.20 23:42	
Ethylbenzene	<0.00200	0.100	0.105	105	0.0963	96	71-129	9	35	mg/kg	03.27.20 23:42	
m,p-Xylenes	<0.00401	0.200	0.203	102	0.187	93	70-135	8	35	mg/kg	03.27.20 23:42	
o-Xylene	<0.00200	0.100	0.103	103	0.0947	95	71-133	8	35	mg/kg	03.27.20 23:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		110		70-130	%	03.27.20 23:42
4-Bromofluorobenzene	89		89		70-130	%	03.27.20 23:42

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

Page 440 of 744

Chain of Custody

Work Order No: 657124

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 ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Fed	Turn Around	
Project Number:	012917061	Routine	☑
P.O. Number:	2RP-3208, 2RP-3212	Rush:	
Sampler's Name:	Benjamin Belill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Temperature (°C):	2.2	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:	7	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH08	S	3/23/20	1020	2'	1	X	X	X
PH08A			1030	4'		X	X	X
PH08B			1040	6'		X	X	X
PH09			1050	2'		X	X	X
PH09A			1100	4'		X	X	X
PH10			1115	2'		X	X	X
PH10A			1120	4'		X	X	X
				BTB		3/25/20		

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Dry ice

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
		3/27/20 @ 0930	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Released to Imaging: 9/21/2022 2:36:52 PM
Final 1.000
Page 24 of 25

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.27.2020 09.30.00 AM

Work Order #: 657126

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?	**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: 03.27.2020

Checklist reviewed by: Jessica Kramer Date: 03.27.2020

Jessica Kramer

ANALYTICAL REPORT

January 09, 2018

XTO Energy- Delaware Division

Sample Delivery Group:	L960364
Samples Received:	12/29/2017
Project Number:	30-015-24968
Description:	Confirmation Soil Samples
Site:	INDIAN FLATS BASS FED. #1 TB
Report To:	Kyle Littrell
	6401 N Holiday Hill Rd
	Suite 200
	Midland, TX 79707

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Released to Imaging: 9/21/2022 2:36:52 PM

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

SS-1 L960364-01 5

SS-2 L960364-02 6

SS-3 L960364-03 7

SS-4 L960364-04 8

SS-5 L960364-05 9

SS-6 L960364-06 10

Qc: Quality Control Summary 11

Total Solids by Method 2540 G-2011 11

Wet Chemistry by Method 300.0 12

Volatile Organic Compounds (GC) by Method 8015/8021 13

Semi-Volatile Organic Compounds (GC) by Method 8015 14

Gl: Glossary of Terms 15

Al: Accreditations & Locations 16

Sc: Sample Chain of Custody 17

SS-1 L960364-01 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	12/27/17 08:24	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	1	12/29/17 14:44	12/29/17 20:30	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:47	01/01/18 01:42	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 06:11	ACM

SS-2 L960364-02 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	12/27/17 08:27	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	1	12/29/17 14:44	12/29/17 20:47	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:47	01/01/18 02:03	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	10	01/05/18 05:23	01/06/18 11:09	ACM

SS-3 L960364-03 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	12/27/17 08:30	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	10	12/29/17 14:44	12/29/17 21:13	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:47	01/01/18 02:25	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	10	01/05/18 05:23	01/06/18 11:26	ACM

SS-4 L960364-04 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	12/27/17 08:33	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	1	12/29/17 14:44	12/29/17 21:21	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:47	01/01/18 02:47	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 05:36	ACM

SS-5 L960364-05 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	12/27/17 08:36	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	5	12/29/17 14:44	12/29/17 21:30	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:47	01/01/18 03:31	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	100	01/05/18 05:23	01/06/18 12:00	ACM

SS-6 L960364-06 Solid

			Collected by	Collected date/time	Received date/time
			Aaron Williamson	12/27/17 08:39	12/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1059206	1	01/04/18 15:58	01/04/18 16:10	KDW
Wet Chemistry by Method 300.0	WG1058430	20	12/29/17 14:44	12/29/17 21:38	MAJ
Volatile Organic Compounds (GC) by Method 8015/8021	WG1058831	1	12/29/17 15:47	01/01/18 03:09	ACE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1058995	1	01/05/18 05:23	01/06/18 07:21	ACM

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	114	J3	11.4	1	12/29/2017 20:30	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000569	1	01/01/2018 01:42	WG1058831
Toluene	ND		0.00569	1	01/01/2018 01:42	WG1058831
Ethylbenzene	ND		0.000569	1	01/01/2018 01:42	WG1058831
Total Xylene	ND		0.00171	1	01/01/2018 01:42	WG1058831
TPH (GC/FID) Low Fraction	ND		0.114	1	01/01/2018 01:42	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*89.0*		*77.0-120*		*01/01/2018 01:42*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*92.5*		*75.0-128*		*01/01/2018 01:42*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	18.1		4.55	1	01/06/2018 06:11	WG1058995
C28-C40 Oil Range	20.2		4.55	1	01/06/2018 06:11	WG1058995
(S) o-Terphenyl	*114*		*18.0-148*		*01/06/2018 06:11*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.6		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	103		10.8	1	12/29/2017 20:47	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000540	1	01/01/2018 02:03	WG1058831
Toluene	ND		0.00540	1	01/01/2018 02:03	WG1058831
Ethylbenzene	ND		0.000540	1	01/01/2018 02:03	WG1058831
Total Xylene	ND		0.00162	1	01/01/2018 02:03	WG1058831
TPH (GC/FID) Low Fraction	ND		0.108	1	01/01/2018 02:03	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*86.9*		*77.0-120*		*01/01/2018 02:03*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*90.2*		*75.0-128*		*01/01/2018 02:03*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		43.2	10	01/06/2018 11:09	WG1058995
C28-C40 Oil Range	136		43.2	10	01/06/2018 11:09	WG1058995
(S) o-Terphenyl	*95.5*		*18.0-148*		*01/06/2018 11:09*	WG1058995

Sample Narrative:

L960364-02 WG1058995: diluted due to matrix

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.0		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	4970		110	10	12/29/2017 21:13	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000549	1	01/01/2018 02:25	WG1058831
Toluene	ND		0.00549	1	01/01/2018 02:25	WG1058831
Ethylbenzene	ND		0.000549	1	01/01/2018 02:25	WG1058831
Total Xylene	ND		0.00165	1	01/01/2018 02:25	WG1058831
TPH (GC/FID) Low Fraction	ND		0.110	1	01/01/2018 02:25	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*87.7*		*77.0-120*		*01/01/2018 02:25*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*92.3*		*75.0-128*		*01/01/2018 02:25*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	168		44.0	10	01/06/2018 11:26	WG1058995
C28-C40 Oil Range	358		44.0	10	01/06/2018 11:26	WG1058995
(S) o-Terphenyl	*83.3*		*18.0-148*		*01/06/2018 11:26*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	370		11.1	1	12/29/2017 21:21	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000557	1	01/01/2018 02:47	WG1058831
Toluene	ND		0.00557	1	01/01/2018 02:47	WG1058831
Ethylbenzene	ND		0.000557	1	01/01/2018 02:47	WG1058831
Total Xylene	ND		0.00167	1	01/01/2018 02:47	WG1058831
TPH (GC/FID) Low Fraction	ND		0.111	1	01/01/2018 02:47	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*87.4*		*77.0-120*		*01/01/2018 02:47*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*90.8*		*75.0-128*		*01/01/2018 02:47*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	8.01		4.45	1	01/06/2018 05:36	WG1058995
C28-C40 Oil Range	13.8		4.45	1	01/06/2018 05:36	WG1058995
(S) o-Terphenyl	*119*		*18.0-148*		*01/06/2018 05:36*	WG1058995

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	2540		56.7	5	12/29/2017 21:30	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000567	1	01/01/2018 03:31	WG1058831
Toluene	ND		0.00567	1	01/01/2018 03:31	WG1058831
Ethylbenzene	ND		0.000567	1	01/01/2018 03:31	WG1058831
Total Xylene	ND		0.00170	1	01/01/2018 03:31	WG1058831
TPH (GC/FID) Low Fraction	ND		0.113	1	01/01/2018 03:31	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*79.1*		*77.0-120*		*01/01/2018 03:31*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*82.6*		*75.0-128*		*01/01/2018 03:31*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	10900		453	100	01/06/2018 12:00	WG1058995
C28-C40 Oil Range	7320		453	100	01/06/2018 12:00	WG1058995
(S) o-Terphenyl	*513*	J7	*18.0-148*		*01/06/2018 12:00*	WG1058995

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.5		1	01/04/2018 16:10	WG1059206

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	9660		231	20	12/29/2017 21:38	WG1058430

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.000593		0.000578	1	01/01/2018 03:09	WG1058831
Toluene	ND		0.00578	1	01/01/2018 03:09	WG1058831
Ethylbenzene	ND		0.000578	1	01/01/2018 03:09	WG1058831
Total Xylene	ND		0.00173	1	01/01/2018 03:09	WG1058831
TPH (GC/FID) Low Fraction	ND		0.116	1	01/01/2018 03:09	WG1058831
(S) a,a,a-Trifluorotoluene(FID)	*87.9*		*77.0-120*		*01/01/2018 03:09*	WG1058831
(S) a,a,a-Trifluorotoluene(PID)	*91.3*		*75.0-128*		*01/01/2018 03:09*	WG1058831

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	119		4.63	1	01/06/2018 07:21	WG1058995
C28-C40 Oil Range	94.7		4.63	1	01/06/2018 07:21	WG1058995
(S) o-Terphenyl	*86.7*		*18.0-148*		*01/06/2018 07:21*	WG1058995

Method Blank (MB)

(MB) R3277594-1 01/04/18 16:10

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.001			

L960364-02 Original Sample (OS) • Duplicate (DUP)

(OS) L960364-02 01/04/18 16:10 • (DUP) R3277594-3 01/04/18 16:10

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.6	92.8	1	0		5

Laboratory Control Sample (LCS)

(LCS) R3277594-2 01/04/18 16:10

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Method Blank (MB)

(MB) R3276745-1 12/29/17 15:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L960340-01 Original Sample (OS) • Duplicate (DUP)

(OS) L960340-01 12/29/17 18:22 • (DUP) R3276745-4 12/29/17 18:31

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4060	3900	10	3.99		20

L960364-01 Original Sample (OS) • Duplicate (DUP)

(OS) L960364-01 12/29/17 20:30 • (DUP) R3276745-7 12/29/17 20:38

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	114	85.5	1	28.4	J3	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3276745-2 12/29/17 15:46 • (LCSD) R3276745-3 12/29/17 15:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	214	215	107	107	90-110			0.543	20

Method Blank (MB)

(MB) R3277358-5 12/31/17 21:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000457	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*89.5*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*92.6*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277358-1 12/31/17 19:32 • (LCSD) R3277358-2 12/31/17 19:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0447	0.0398	89.4	79.6	71.0-121			11.6	20
Toluene	0.0500	0.0468	0.0412	93.7	82.5	72.0-120			12.7	20
Ethylbenzene	0.0500	0.0488	0.0431	97.6	86.3	76.0-121			12.3	20
Total Xylene	0.150	0.149	0.132	99.3	88.2	75.0-124			11.9	20
(S) a,a,a-Trifluorotoluene(FID)				*88.4*	*88.6*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*91.4*	*91.3*	*75.0-128*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277358-3 12/31/17 20:15 • (LCSD) R3277358-4 12/31/17 20:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.82	5.57	106	101	70.0-136			4.30	20
(S) a,a,a-Trifluorotoluene(FID)				*83.4*	*83.1*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*99.2*	*99.8*	*75.0-128*				

Method Blank (MB)

(MB) R3277803-1 01/06/18 03:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*127*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3277803-2 01/06/18 03:34 • (LCSD) R3277803-3 01/06/18 03:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	51.6	48.1	86.0	80.2	50.0-150			6.98	20
(S) o-Terphenyl				*147*	*140*	*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

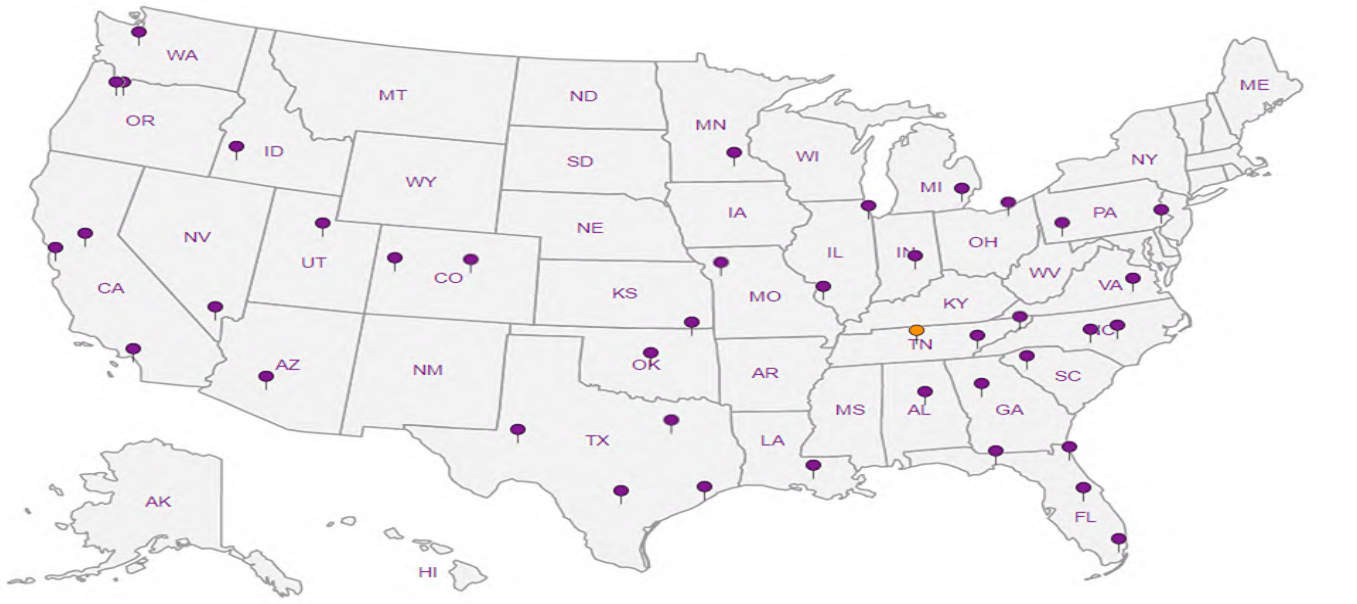
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



2TE

Billing Information: XTO

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABS S·C·I·E·N·C·E·S

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Kyle Littrell

Email To: Abaker@LTenv.com, Kyle_Littrell@XTOenergy.com

Project Description: Confirmation Soil Samples

City/State Collected: NM

Phone: 1-970-317-1867

Client Project # 30-015-24968

Lab Project # L# 960364

D132

Collected by (print): Aaron Williamson

Site/Facility ID # Indian Flats Boss Federal #1 Tank Battery CRF-3210

P.O. # 01291706

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Acctnum: XTORNM

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX EPA Method 8021	TPH EPA Method 8015	Chloride EPA Method 300.1	Remarks	Sample # (lab only)
SS-1	Grab	SS	6"	12/27/17	08:24	1	✓	✓	✓		-01
SS-2	Grab	SS	6"	12/27/17	08:27	1	✓	✓	✓		-02
SS-3	Grab	SS	6"	12/27/17	08:30	1	✓	✓	✓		-03
SS-4	Grab	SS	6"	12/27/17	08:33	1	✓	✓	✓		-04
SS-5	Grab	SS	6"	12/27/17	08:36	1	✓	✓	✓		-05
SS-6	Grab	SS	6"	12/27/17	08:39	1	✓	✓	✓		-06

N.F.E. ARJ

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7384 4291 4809

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	12/28/17	02:10			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.7 °C Bottles Received: 6	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) 861	Date: 12/29/17 Time: 08:45	Hold: / Condition: NCF / OK

Analytical Report 640520

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal #4

2RP-3760

25-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)

Released to Imaging: 9/21/2022 2:36:52 PM

25-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640520**
Indian Flats Bass Federal #4
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) 640520. 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. 640520 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-17-19 12:00	15 ft	640520-001
PH02	S	10-17-19 12:10	1 ft	640520-002
PH02A	S	10-17-19 12:15	2 ft	640520-003
PH02B	S	10-17-19 12:20	3 ft	640520-004
PH02C	S	10-17-19 12:25	4 ft	640520-005
PH02D	S	10-17-19 12:30	5 ft	640520-006
PH02E	S	10-17-19 12:40	6 ft	640520-007
PH02F	S	10-17-19 12:50	7 ft	640520-008
PH02G	S	10-17-19 13:00	8 ft	640520-009
PH02H	S	10-17-19 13:10	9 ft	640520-010
PH02I	S	10-17-19 13:20	10 ft	640520-011
PH02J	S	10-17-19 13:35	12 ft	640520-012
PH02K	S	10-17-19 13:40	13 ft	640520-013
PH02L	S	10-17-19 13:50	14 ft	640520-014
PH02M	S	10-17-19 14:00	15 ft	640520-015
PH03	S	10-17-19 14:10	1 ft	640520-016
PH03A	S	10-17-19 14:15	2 ft	640520-017
PH03B	S	10-17-19 14:20	3 ft	640520-018
PH03C	S	10-17-19 14:30	4 ft	640520-019
PH03D	S	10-17-19 14:40	5 ft	640520-020
PH03E	S	10-17-19 14:45	6 ft	640520-021
PH03F	S	10-17-19 14:50	7 ft	640520-022
PH03G	S	10-17-19 15:00	8 ft	640520-023
PH03H	S	10-17-19 15:05	9 ft	640520-024
PH03I	S	10-17-19 15:15	10 ft	640520-025
PH03J	S	10-17-19 15:20	11 ft	640520-026
PH03K	S	10-17-19 15:30	12 ft	640520-027
PH03L	S	10-17-19 15:40	13 ft	640520-028
PH03M	S	10-17-19 15:50	14 ft	640520-029
PH03N	S	10-17-19 16:00	15 ft	640520-030

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal #4

Project ID:	*2RP-3760*	Report Date:	*25-OCT-19*
Work Order Number(s):	*640520*	Date Received:	*10/21/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105068 Inorganic Anions by EPA 300

Lab Sample ID 640617-001 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: 640520-021, -022, -023, -024, -025, -026, -027, -028, -029, -030.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3105310 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.

Samples affected are: 640520-023,640520-022.

Batch: LBA-3105402 BTEX by EPA 8021B

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 640520-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 640520-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike. 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: 640520-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 640520

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 2RP-3760
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640520-001		640520-002		640520-003		640520-004		640520-005		640520-006	
	Field Id:	PH01		PH02		PH02A		PH02B		PH02C		PH02D	
	Depth:	15- ft		1- ft		2- ft		3- ft		4- ft		5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-17-19 12:00		Oct-17-19 12:10		Oct-17-19 12:15		Oct-17-19 12:20		Oct-17-19 12:25		Oct-17-19 12:30	
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30	
	Analyzed:	Oct-25-19 00:36		Oct-25-19 00:56		Oct-25-19 01:16		Oct-25-19 01:36		Oct-25-19 01:56		Oct-25-19 02:16	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00400	0.00400	<0.00399	0.00399	<0.00399	0.00399	<0.00404	0.00404	<0.00401	0.00401
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-22-19 18:47		Oct-22-19 19:02		Oct-22-19 19:07		Oct-22-19 19:12		Oct-22-19 19:17		Oct-22-19 19:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		682	4.96	<5.04	5.04	<5.02	5.02	<4.98	4.98	<5.00	5.00	<5.03	5.03
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00	
	Analyzed:	Oct-23-19 00:51		Oct-23-19 01:47		Oct-23-19 02:06		Oct-23-19 02:25		Oct-23-19 02:44		Oct-23-19 03:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8	<49.8	49.8	<50.0	50.0
Total GRO-DRO		<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8	<49.8	49.8	<50.0	50.0
Total TPH		<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8	<49.8	49.8	<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

Certificate of Analysis Summary 640520

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 2RP-3760
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640520-007		640520-008		640520-009		640520-010		640520-011		640520-012	
	Field Id:	PH02E		PH02F		PH02G		PH02H		PH02I		PH02J	
	Depth:	6- ft		7- ft		8- ft		9- ft		10- ft		12- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-17-19 12:40		Oct-17-19 12:50		Oct-17-19 13:00		Oct-17-19 13:10		Oct-17-19 13:20		Oct-17-19 13:35	
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30	
	Analyzed:	Oct-25-19 02:36		Oct-25-19 02:56		Oct-25-19 03:17		Oct-25-19 03:37		Oct-25-19 04:55		Oct-25-19 05:15	
	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	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-22-19 19:37		Oct-22-19 19:42		Oct-22-19 19:47		Oct-22-19 19:52		Oct-22-19 19:57		Oct-22-19 20:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.05	5.05	<5.05	5.05	<5.05	5.05	<4.98	4.98	<5.00	5.00	<5.04	5.04
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00	
	Analyzed:	Oct-23-19 03:22		Oct-23-19 03:41		Oct-23-19 04:00		Oct-23-19 04:19		Oct-23-19 04:56		Oct-23-19 05:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total GRO-DRO		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9

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 Analysis Summary 640520

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 2RP-3760
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640520-013		640520-014		640520-015		640520-016		640520-017		640520-018	
	Field Id:	PH02K		PH02L		PH02M		PH03		PH03A		PH03B	
	Depth:	13- ft		14- ft		15- ft		1- ft		2- ft		3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-17-19 13:40		Oct-17-19 13:50		Oct-17-19 14:00		Oct-17-19 14:10		Oct-17-19 14:15		Oct-17-19 14:20	
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30		Oct-23-19 15:30	
	Analyzed:	Oct-25-19 05:35		Oct-25-19 05:55		Oct-25-19 06:16		Oct-25-19 06:36		Oct-25-19 06:56		Oct-25-19 07:16	
	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	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	<0.00401	0.00401	<0.00398	0.00398	<0.00401	0.00401	<0.00397	0.00397	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-22-19 20:17		Oct-22-19 20:32		Oct-23-19 08:27		Oct-22-19 20:42		Oct-22-19 20:47		Oct-22-19 20:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.02	5.02	<4.96	4.96	<5.00	5.00	1900	25.2	2250	25.1	3070	24.9
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00	
	Analyzed:	Oct-23-19 05:34		Oct-23-19 05:53		Oct-23-19 06:11		Oct-23-19 06:30		Oct-23-19 06:49		Oct-23-19 07:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	389	49.9	640	49.8	861	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	132	49.9	206	49.8	249	50.0
Total GRO-DRO		<50.0	50.0	<49.8	49.8	<50.0	50.0	389	49.9	640	49.8	861	50.0
Total TPH		<50.0	50.0	<49.8	49.8	<50.0	50.0	521	49.9	846	49.8	1110	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 Analysis Summary 640520

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 2RP-3760
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640520-019		640520-020		640520-021		640520-022		640520-023		640520-024	
	Field Id:	PH03C		PH03D		PH03E		PH03F		PH03G		PH03H	
	Depth:	4- ft		5- ft		6- ft		7- ft		8- ft		9- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-17-19 14:30		Oct-17-19 14:40		Oct-17-19 14:45		Oct-17-19 14:50		Oct-17-19 15:00		Oct-17-19 15:05	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-23-19 15:30		Oct-23-19 15:30		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00	
	Analyzed:	Oct-25-19 07:36		Oct-25-19 07:56		Oct-24-19 09:14		Oct-24-19 09:34		Oct-24-19 09:54		Oct-24-19 10:14	
	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	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00404	0.00404	<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 16:25		Oct-22-19 16:25		Oct-22-19 16:25		Oct-22-19 16:25	
	Analyzed:	Oct-22-19 20:57		Oct-22-19 21:02		Oct-22-19 17:13		Oct-22-19 17:18		Oct-22-19 17:24		Oct-22-19 17:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2280	25.0	2780	25.0	5630	49.6	2590	24.9	3900	25.2	3640	25.1
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-23-19 07:27		Oct-23-19 07:45		Oct-23-19 02:39		Oct-23-19 03:00		Oct-23-19 03:21		Oct-23-19 03:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		739	49.9	965	50.0	2960	50.0	2560	49.9	801	49.8	1410	50.0
Motor Oil Range Hydrocarbons (MRO)		217	49.9	256	50.0	450	50.0	389	49.9	151	49.8	264	50.0
Total GRO-DRO		739	49.9	965	50.0	2960	50.0	2560	49.9	801	49.8	1410	50.0
Total TPH		956	49.9	1220	50.0	3410	50.0	2950	49.9	952	49.8	1670	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 Analysis Summary 640520

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 2RP-3760
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon Oct-21-19 09:10 am
Report Date: 25-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640520-025		640520-026		640520-027		640520-028		640520-029		640520-030	
	Field Id:	PH03I		PH03J		PH03K		PH03L		PH03M		PH03N	
	Depth:	10- ft		11- ft		12- ft		13- ft		14- ft		15- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-17-19 15:15		Oct-17-19 15:20		Oct-17-19 15:30		Oct-17-19 15:40		Oct-17-19 15:50		Oct-17-19 16:00	
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00		Oct-22-19 15:00	
	Analyzed:	Oct-24-19 10:34		Oct-24-19 11:53		Oct-24-19 12:13		Oct-24-19 12:33		Oct-24-19 12:53		Oct-24-19 01:13	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201
m,p-Xylenes		<0.00400	0.00400	<0.00399	0.00399	<0.00400	0.00400	<0.00397	0.00397	<0.00403	0.00403	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00202	0.00202	<0.00201	0.00201
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Oct-22-19 16:25		Oct-22-19 16:25		Oct-22-19 16:25		Oct-22-19 16:25		Oct-22-19 16:25		Oct-22-19 16:25	
	Analyzed:	Oct-22-19 17:45		Oct-22-19 17:51		Oct-22-19 17:56		Oct-22-19 18:02		Oct-22-19 18:07		Oct-22-19 16:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3390	24.8	2750	25.0	2800	25.0	1740	25.0	1230	5.00	492	4.99
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00		Oct-22-19 14:00	
	Analyzed:	Oct-23-19 04:03		Oct-23-19 04:25		Oct-23-19 04:46		Oct-23-19 05:07		Oct-23-19 05:28		Oct-23-19 05:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		1960	50.0	176	49.9	786	50.0	332	49.9	198	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		278	50.0	<49.9	49.9	134	50.0	73.7	49.9	<49.8	49.8	<50.0	50.0
Total GRO-DRO		1960	50.0	176	49.9	786	50.0	332	49.9	198	49.8	<50.0	50.0
Total TPH		2240	50.0	176	49.9	920	50.0	406	49.9	198	49.8	<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 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-001	Date Collected:	10.17.19 12.00	Sample Depth:	15 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**682**	4.96	mg/kg	10.22.19 18.47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 00.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 00.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 00.51	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 00.51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 00.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.23.19 00.51	
o-Terphenyl	84-15-1	101	%	70-135	10.23.19 00.51	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-001	Date Collected:	10.17.19 12.00	Sample Depth:	15 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 00.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 00.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 00.36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.25.19 00.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 00.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 00.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 00.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.25.19 00.36	
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.25.19 00.36	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-002	Date Collected:	10.17.19 12.10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	10.22.19 19.02	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 01.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 01.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 01.47	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 01.47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 01.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 01.47	
o-Terphenyl	84-15-1	98	%	70-135	10.23.19 01.47	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-002	Date Collected:	10.17.19 12.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 00.56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 00.56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 00.56	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.25.19 00.56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 00.56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 00.56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 00.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.25.19 00.56	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.25.19 00.56	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-003	Date Collected:	10.17.19 12.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	10.22.19 19.07	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 02.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 02.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 02.06	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 02.06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 02.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 02.06	
o-Terphenyl	84-15-1	99	%	70-135	10.23.19 02.06	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-003	Date Collected:	10.17.19 12.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 01.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 01.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 01.16	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.25.19 01.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 01.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 01.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 01.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.25.19 01.16	
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.25.19 01.16	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-004	Date Collected:	10.17.19 12.20	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	10.22.19 19.12	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 02.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 02.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 02.25	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 02.25	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 02.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 02.25	
o-Terphenyl	84-15-1	100	%	70-135	10.23.19 02.25	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-004	Date Collected:	10.17.19 12.20	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 01.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 01.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 01.36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.25.19 01.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 01.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 01.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 01.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	10.25.19 01.36	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.25.19 01.36	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-005	Date Collected:	10.17.19 12.25	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.22.19 19.17	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 02.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 02.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 02.44	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 02.44	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 02.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.23.19 02.44	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 02.44	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-005	Date Collected:	10.17.19 12.25	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.25.19 01.56	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.25.19 01.56	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.25.19 01.56	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.25.19 01.56	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.25.19 01.56	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.25.19 01.56	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.25.19 01.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.25.19 01.56	
4-Bromofluorobenzene	460-00-4	100	%	70-130	10.25.19 01.56	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02D**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-006	Date Collected:	10.17.19 12.30	Sample Depth:	5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	10.22.19 19.32	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 03.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 03.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 03.03	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 03.03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 03.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 03.03	
o-Terphenyl	84-15-1	99	%	70-135	10.23.19 03.03	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02D**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-006	Date Collected:	10.17.19 12.30	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 02.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 02.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 02.16	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.25.19 02.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 02.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 02.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 02.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.25.19 02.16	
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.25.19 02.16	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02E**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-007	Date Collected:	10.17.19 12.40	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	10.22.19 19.37	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 03.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 03.22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 03.22	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 03.22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 03.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 03.22	
o-Terphenyl	84-15-1	99	%	70-135	10.23.19 03.22	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02E**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-007	Date Collected:	10.17.19 12.40	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 02.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 02.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 02.36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.25.19 02.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 02.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 02.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 02.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.25.19 02.36	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.25.19 02.36	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02F**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-008	Date Collected:	10.17.19 12.50	Sample Depth:	7 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	10.22.19 19.42	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 03.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 03.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 03.41	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 03.41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 03.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.23.19 03.41	
o-Terphenyl	84-15-1	97	%	70-135	10.23.19 03.41	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02F**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-008	Date Collected:	10.17.19 12.50	Sample Depth:	7 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.25.19 02.56	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.25.19 02.56	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.25.19 02.56	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.25.19 02.56	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.25.19 02.56	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.25.19 02.56	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.25.19 02.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.25.19 02.56	
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.25.19 02.56	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02G**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-009	Date Collected:	10.17.19 13.00	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	10.22.19 19.47	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 04.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 04.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 04.00	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 04.00	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 04.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	10.23.19 04.00	
o-Terphenyl	84-15-1	97	%	70-135	10.23.19 04.00	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02G**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-009	Date Collected:	10.17.19 13.00	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 03.17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 03.17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 03.17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 03.17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 03.17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 03.17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 03.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.25.19 03.17	
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.25.19 03.17	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02H**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-010	Date Collected:	10.17.19 13.10	Sample Depth:	9 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	10.22.19 19.52	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 04.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 04.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 04.19	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 04.19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 04.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.23.19 04.19	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 04.19	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02H**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-010	Date Collected:	10.17.19 13.10	Sample Depth:	9 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 03.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 03.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 03.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 03.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 03.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 03.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 03.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.25.19 03.37	
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.25.19 03.37	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02I**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-011	Date Collected:	10.17.19 13.20	Sample Depth:	10 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.22.19 19.57	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 04.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 04.56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 04.56	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 04.56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 04.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 04.56	
o-Terphenyl	84-15-1	101	%	70-135	10.23.19 04.56	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02I**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-011	Date Collected:	10.17.19 13.20	Sample Depth:	10 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.25.19 04.55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.25.19 04.55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.25.19 04.55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.25.19 04.55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.25.19 04.55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.25.19 04.55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.25.19 04.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.25.19 04.55	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.25.19 04.55	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02J**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-012	Date Collected:	10.17.19 13.35	Sample Depth:	12 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	10.22.19 20.12	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 05.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 05.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 05.15	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 05.15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 05.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.23.19 05.15	
o-Terphenyl	84-15-1	98	%	70-135	10.23.19 05.15	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02J**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-012	Date Collected:	10.17.19 13.35	Sample Depth:	12 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 05.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 05.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 05.15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.25.19 05.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 05.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 05.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 05.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	10.25.19 05.15	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.25.19 05.15	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02K**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-013	Date Collected:	10.17.19 13.40	Sample Depth:	13 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	10.22.19 20.17	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 05.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 05.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 05.34	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 05.34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 05.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 05.34	
o-Terphenyl	84-15-1	99	%	70-135	10.23.19 05.34	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02K**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-013	Date Collected:	10.17.19 13.40	Sample Depth:	13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 05.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 05.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 05.35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.25.19 05.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 05.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 05.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 05.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	10.25.19 05.35	
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.25.19 05.35	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02L**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-014	Date Collected:	10.17.19 13.50	Sample Depth:	14 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	10.22.19 20.32	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 05.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.23.19 05.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 05.53	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.23.19 05.53	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.23.19 05.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.23.19 05.53	
o-Terphenyl	84-15-1	102	%	70-135	10.23.19 05.53	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02L**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-014	Date Collected:	10.17.19 13.50	Sample Depth:	14 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 05.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 05.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 05.55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.25.19 05.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 05.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 05.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 05.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.25.19 05.55	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.25.19 05.55	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02M**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-015	Date Collected:	10.17.19 14.00	Sample Depth:	15 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	10.23.19 08.27	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 06.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 06.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 06.11	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 06.11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 06.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.23.19 06.11	
o-Terphenyl	84-15-1	102	%	70-135	10.23.19 06.11	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02M**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-015	Date Collected:	10.17.19 14.00	Sample Depth:	15 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 06.16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 06.16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 06.16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 06.16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 06.16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 06.16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 06.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	10.25.19 06.16	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.25.19 06.16	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-016	Date Collected:	10.17.19 14.10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1900**	25.2	mg/kg	10.22.19 20.42		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 06.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	**389**	49.9	mg/kg	10.23.19 06.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**132**	49.9	mg/kg	10.23.19 06.30		1
Total GRO-DRO	PHC628	**389**	49.9	mg/kg	10.23.19 06.30		1
Total TPH	PHC635	**521**	49.9	mg/kg	10.23.19 06.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	10.23.19 06.30	
o-Terphenyl	84-15-1	98	%	70-135	10.23.19 06.30	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-016	Date Collected:	10.17.19 14.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 06.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 06.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 06.36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.25.19 06.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 06.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 06.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 06.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	10.25.19 06.36	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.25.19 06.36	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-017	Date Collected:	10.17.19 14.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2250**	25.1	mg/kg	10.22.19 20.47		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 06.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**640**	49.8	mg/kg	10.23.19 06.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**206**	49.8	mg/kg	10.23.19 06.49		1
Total GRO-DRO	PHC628	**640**	49.8	mg/kg	10.23.19 06.49		1
Total TPH	PHC635	**846**	49.8	mg/kg	10.23.19 06.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.23.19 06.49	
o-Terphenyl	84-15-1	102	%	70-135	10.23.19 06.49	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-017	Date Collected:	10.17.19 14.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.25.19 06.56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.25.19 06.56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.25.19 06.56	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.25.19 06.56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.25.19 06.56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.25.19 06.56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.25.19 06.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.25.19 06.56	
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.25.19 06.56	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-018	Date Collected:	10.17.19 14.20	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3070**	24.9	mg/kg	10.22.19 20.52		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 07.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	**861**	50.0	mg/kg	10.23.19 07.08		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**249**	50.0	mg/kg	10.23.19 07.08		1
Total GRO-DRO	PHC628	**861**	50.0	mg/kg	10.23.19 07.08		1
Total TPH	PHC635	**1110**	50.0	mg/kg	10.23.19 07.08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.23.19 07.08	
o-Terphenyl	84-15-1	99	%	70-135	10.23.19 07.08	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03B**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-018	Date Collected:	10.17.19 14.20	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 07.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 07.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 07.16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.25.19 07.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 07.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 07.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 07.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.25.19 07.16	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.25.19 07.16	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-019	Date Collected:	10.17.19 14.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2280**	25.0	mg/kg	10.22.19 20.57		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 07.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	**739**	49.9	mg/kg	10.23.19 07.27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**217**	49.9	mg/kg	10.23.19 07.27		1
Total GRO-DRO	PHC628	**739**	49.9	mg/kg	10.23.19 07.27		1
Total TPH	PHC635	**956**	49.9	mg/kg	10.23.19 07.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 07.27	
o-Terphenyl	84-15-1	102	%	70-135	10.23.19 07.27	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03C**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-019	Date Collected:	10.17.19 14.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 07.36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 07.36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 07.36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 07.36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 07.36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 07.36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 07.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.25.19 07.36	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.25.19 07.36	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03D**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-020	Date Collected:	10.17.19 14.40	Sample Depth:	5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105077			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2780**	25.0	mg/kg	10.22.19 21.02		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105137			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 07.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	**965**	50.0	mg/kg	10.23.19 07.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**256**	50.0	mg/kg	10.23.19 07.45		1
Total GRO-DRO	PHC628	**965**	50.0	mg/kg	10.23.19 07.45		1
Total TPH	PHC635	**1220**	50.0	mg/kg	10.23.19 07.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.23.19 07.45	
o-Terphenyl	84-15-1	100	%	70-135	10.23.19 07.45	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03D**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-020	Date Collected:	10.17.19 14.40	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.23.19 15.30	Basis:	Wet Weight
Seq Number:	3105402			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 07.56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 07.56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 07.56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 07.56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 07.56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 07.56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 07.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.25.19 07.56	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.25.19 07.56	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03E**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-021	Date Collected:	10.17.19 14.45	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5630**	49.6	mg/kg	10.22.19 17.13		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 02.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2960**	50.0	mg/kg	10.23.19 02.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**450**	50.0	mg/kg	10.23.19 02.39		1
Total GRO-DRO	PHC628	**2960**	50.0	mg/kg	10.23.19 02.39		1
Total TPH	PHC635	**3410**	50.0	mg/kg	10.23.19 02.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.23.19 02.39	
o-Terphenyl	84-15-1	107	%	70-135	10.23.19 02.39	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03E**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-021	Date Collected:	10.17.19 14.45	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.24.19 09.14	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.24.19 09.14	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.24.19 09.14	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.24.19 09.14	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.24.19 09.14	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.24.19 09.14	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.24.19 09.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.24.19 09.14	
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.24.19 09.14	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03F**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-022	Date Collected:	10.17.19 14.50	Sample Depth:	7 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2590**	24.9	mg/kg	10.22.19 17.18		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 03.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2560**	49.9	mg/kg	10.23.19 03.00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**389**	49.9	mg/kg	10.23.19 03.00		1
Total GRO-DRO	PHC628	**2560**	49.9	mg/kg	10.23.19 03.00		1
Total TPH	PHC635	**2950**	49.9	mg/kg	10.23.19 03.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.23.19 03.00	
o-Terphenyl	84-15-1	115	%	70-135	10.23.19 03.00	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03F**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-022	Date Collected:	10.17.19 14.50	Sample Depth:	7 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.24.19 09.34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.24.19 09.34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.24.19 09.34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.24.19 09.34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.24.19 09.34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.24.19 09.34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.24.19 09.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.24.19 09.34	
4-Bromofluorobenzene	460-00-4	136	%	70-130	10.24.19 09.34	**

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03G**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-023	Date Collected:	10.17.19 15.00	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3900**	25.2	mg/kg	10.22.19 17.24		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 03.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	**801**	49.8	mg/kg	10.23.19 03.21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**151**	49.8	mg/kg	10.23.19 03.21		1
Total GRO-DRO	PHC628	**801**	49.8	mg/kg	10.23.19 03.21		1
Total TPH	PHC635	**952**	49.8	mg/kg	10.23.19 03.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.23.19 03.21	
o-Terphenyl	84-15-1	110	%	70-135	10.23.19 03.21	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03G**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-023	Date Collected:	10.17.19 15.00	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.24.19 09.54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.24.19 09.54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.24.19 09.54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.24.19 09.54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.24.19 09.54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.24.19 09.54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.24.19 09.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	134	%	70-130	10.24.19 09.54	**
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.24.19 09.54	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03H**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-024	Date Collected:	10.17.19 15.05	Sample Depth:	9 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3640**	25.1	mg/kg	10.22.19 17.29		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 03.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1410**	50.0	mg/kg	10.23.19 03.43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**264**	50.0	mg/kg	10.23.19 03.43		1
Total GRO-DRO	PHC628	**1410**	50.0	mg/kg	10.23.19 03.43		1
Total TPH	PHC635	**1670**	50.0	mg/kg	10.23.19 03.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.23.19 03.43	
o-Terphenyl	84-15-1	106	%	70-135	10.23.19 03.43	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03H**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-024	Date Collected:	10.17.19 15.05	Sample Depth:	9 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.24.19 10.14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.24.19 10.14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.24.19 10.14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.24.19 10.14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.24.19 10.14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.24.19 10.14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.24.19 10.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.24.19 10.14	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.24.19 10.14	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03I**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-025	Date Collected:	10.17.19 15.15	Sample Depth:	10 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3390**	24.8	mg/kg	10.22.19 17.45		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 04.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1960**	50.0	mg/kg	10.23.19 04.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**278**	50.0	mg/kg	10.23.19 04.03		1
Total GRO-DRO	PHC628	**1960**	50.0	mg/kg	10.23.19 04.03		1
Total TPH	PHC635	**2240**	50.0	mg/kg	10.23.19 04.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.23.19 04.03	
o-Terphenyl	84-15-1	117	%	70-135	10.23.19 04.03	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03I**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-025	Date Collected:	10.17.19 15.15	Sample Depth:	10 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.24.19 10.34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.24.19 10.34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.24.19 10.34	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.24.19 10.34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.24.19 10.34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.24.19 10.34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.24.19 10.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.24.19 10.34	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.24.19 10.34	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03J**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-026	Date Collected:	10.17.19 15.20	Sample Depth:	11 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2750**	25.0	mg/kg	10.22.19 17.51		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 04.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	**176**	49.9	mg/kg	10.23.19 04.25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 04.25	U	1
Total GRO-DRO	PHC628	**176**	49.9	mg/kg	10.23.19 04.25		1
Total TPH	PHC635	**176**	49.9	mg/kg	10.23.19 04.25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 04.25	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 04.25	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03J**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-026	Date Collected:	10.17.19 15.20	Sample Depth:	11 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.24.19 11.53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.24.19 11.53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.24.19 11.53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.24.19 11.53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.24.19 11.53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.24.19 11.53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.24.19 11.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	10.24.19 11.53	
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.24.19 11.53	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03K**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-027	Date Collected:	10.17.19 15.30	Sample Depth:	12 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2800**	25.0	mg/kg	10.22.19 17.56		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 04.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	**786**	50.0	mg/kg	10.23.19 04.46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**134**	50.0	mg/kg	10.23.19 04.46		1
Total GRO-DRO	PHC628	**786**	50.0	mg/kg	10.23.19 04.46		1
Total TPH	PHC635	**920**	50.0	mg/kg	10.23.19 04.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.23.19 04.46	
o-Terphenyl	84-15-1	103	%	70-135	10.23.19 04.46	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03K**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-027	Date Collected:	10.17.19 15.30	Sample Depth:	12 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.24.19 12.13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.24.19 12.13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.24.19 12.13	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.24.19 12.13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.24.19 12.13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.24.19 12.13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.24.19 12.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.24.19 12.13	
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.24.19 12.13	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03L**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-028	Date Collected:	10.17.19 15.40	Sample Depth:	13 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1740**	25.0	mg/kg	10.22.19 18.02		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 05.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	**332**	49.9	mg/kg	10.23.19 05.07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**73.7**	49.9	mg/kg	10.23.19 05.07		1
Total GRO-DRO	PHC628	**332**	49.9	mg/kg	10.23.19 05.07		1
Total TPH	PHC635	**406**	49.9	mg/kg	10.23.19 05.07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.23.19 05.07	
o-Terphenyl	84-15-1	102	%	70-135	10.23.19 05.07	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03L**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-028	Date Collected:	10.17.19 15.40	Sample Depth:	13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.24.19 12.33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.24.19 12.33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.24.19 12.33	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.24.19 12.33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.24.19 12.33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.24.19 12.33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.24.19 12.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.24.19 12.33	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.24.19 12.33	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03M**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-029	Date Collected:	10.17.19 15.50	Sample Depth:	14 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1230**	5.00	mg/kg	10.22.19 18.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.23.19 05.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	**198**	49.8	mg/kg	10.23.19 05.28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.23.19 05.28	U	1
Total GRO-DRO	PHC628	**198**	49.8	mg/kg	10.23.19 05.28		1
Total TPH	PHC635	**198**	49.8	mg/kg	10.23.19 05.28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.23.19 05.28	
o-Terphenyl	84-15-1	112	%	70-135	10.23.19 05.28	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03M**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-029	Date Collected:	10.17.19 15.50	Sample Depth:	14 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.24.19 12.53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.24.19 12.53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.24.19 12.53	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.24.19 12.53	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.24.19 12.53	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.24.19 12.53	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.24.19 12.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.24.19 12.53	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.24.19 12.53	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03N**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-030	Date Collected:	10.17.19 16.00	Sample Depth:	15 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.22.19 16.25	Basis:	Wet Weight
Seq Number:	3105068			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**492**	4.99	mg/kg	10.22.19 16.57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.22.19 14.00	Basis:	Wet Weight
Seq Number:	3105130			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 05.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 05.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 05.49	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 05.49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 05.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.23.19 05.49	
o-Terphenyl	84-15-1	108	%	70-135	10.23.19 05.49	

Certificate of Analytical Results 640520

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH03N**	Matrix:	Soil	Date Received:	10.21.19 09.10
Lab Sample Id:	640520-030	Date Collected:	10.17.19 16.00	Sample Depth:	15 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.22.19 15.00	Basis:	Wet Weight
Seq Number:	3105310			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.24.19 01.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.24.19 01.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.24.19 01.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.24.19 01.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.24.19 01.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.24.19 01.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.24.19 01.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.24.19 01.13	
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.24.19 01.13	

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: 9/21/2022 2:36:52 PM

QC Summary 640520

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105077 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688648-1-BLK — LCS Sample Id: 7688648-1-BKS — LCSD Sample Id: 7688648-1-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	259	104	259	104	90-110	0	20	mg/kg	10.22.19 18:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105068 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688667-1-BLK — LCS Sample Id: 7688667-1-BKS — LCSD Sample Id: 7688667-1-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	241	96	241	96	90-110	0	20	mg/kg	10.22.19 16:46	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105077 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640520-001 — MS Sample Id: 640520-001 S — MSD Sample Id: 640520-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	682	248	914	94	906	90	90-110	1	20	mg/kg	10.22.19 18:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105077 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640520-011 — MS Sample Id: 640520-011 S — MSD Sample Id: 640520-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.18	200	204	100	206	101	90-110	1	20	mg/kg	10.22.19 20:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105068 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640520-030 — MS Sample Id: 640520-030 S — MSD Sample Id: 640520-030 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	492	250	714	89	712	88	90-110	0	20	mg/kg	10.22.19 17:02	X

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 640520

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105068 Matrix: Soil Date Prep: 10.22.19
Parent Sample Id: 640617-001 MS Sample Id: 640617-001 S MSD Sample Id: 640617-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	30.0	249	271	97	272	97	90-110	0	20	mg/kg	10.22.19 18:18	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105130 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688682-1-BLK LCS Sample Id: 7688682-1-BKS LCSD Sample Id: 7688682-1-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	1130	113	1060	106	70-135	6	20	mg/kg	10.22.19 21:27	
Diesel Range Organics (DRO)	<15.0	1000	1150	115	1100	110	70-135	4	20	mg/kg	10.22.19 21:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		117		120		70-135	%	10.22.19 21:27
o-Terphenyl	115		122		117		70-135	%	10.22.19 21:27

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105137 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688683-1-BLK LCS Sample Id: 7688683-1-BKS LCSD Sample Id: 7688683-1-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	1100	110	1100	110	70-135	0	20	mg/kg	10.23.19 00:13	
Diesel Range Organics (DRO)	<15.0	1000	996	100	980	98	70-135	2	20	mg/kg	10.23.19 00:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		125		123		70-135	%	10.23.19 00:13
o-Terphenyl	107		114		109		70-135	%	10.23.19 00:13

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105130 Matrix: Solid Date Prep: 10.22.19
MB Sample Id: 7688682-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.22.19 21:06	

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 640520

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: TPH by SW8015 Mod
Seq Number: 3105137
Prep Method: SW8015P
Matrix: Solid
Date Prep: 10.22.19
MB Sample Id: 7688683-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.22.19 23:55	

Analytical Method: TPH by SW8015 Mod
Seq Number: 3105130
Prep Method: SW8015P
Matrix: Soil
Date Prep: 10.22.19
Parent Sample Id: 640517-001
MS Sample Id: 640517-001 S
MSD Sample Id: 640517-001 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)	17.5	996	1080	107	1080	106	70-135	0	20	mg/kg	10.22.19 22:29	
Diesel Range Organics (DRO)	<14.9	996	1100	110	1090	109	70-135	1	20	mg/kg	10.22.19 22:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		107		70-135	%	10.22.19 22:29
o-Terphenyl	107		104		70-135	%	10.22.19 22:29

Analytical Method: TPH by SW8015 Mod
Seq Number: 3105137
Prep Method: SW8015P
Matrix: Soil
Date Prep: 10.22.19
Parent Sample Id: 640520-001
MS Sample Id: 640520-001 S
MSD Sample Id: 640520-001 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	997	1140	114	1150	115	70-135	1	20	mg/kg	10.23.19 01:10	
Diesel Range Organics (DRO)	34.4	997	1020	99	1040	101	70-135	2	20	mg/kg	10.23.19 01:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		123		70-135	%	10.23.19 01:10
o-Terphenyl	107		114		70-135	%	10.23.19 01:10

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 640520

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105310 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688671-1-BLK — LCS Sample Id: 7688671-1-BKS — LCSD Sample Id: 7688671-1-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	0.104	104	0.103	103	70-130	1	35	mg/kg	10.23.19 11:47	
Toluene	<0.00200	0.100	0.0938	94	0.0952	95	70-130	1	35	mg/kg	10.23.19 11:47	
Ethylbenzene	<0.00200	0.100	0.0932	93	0.0916	92	70-130	2	35	mg/kg	10.23.19 11:47	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.186	93	70-130	1	35	mg/kg	10.23.19 11:47	
o-Xylene	<0.00200	0.100	0.0909	91	0.0896	90	70-130	1	35	mg/kg	10.23.19 11:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		96		70-130	%	10.23.19 11:47
4-Bromofluorobenzene	97		106		108		70-130	%	10.23.19 11:47

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105402 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688745-1-BLK — LCS Sample Id: 7688745-1-BKS — LCSD Sample Id: 7688745-1-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	0.102	102	0.114	114	70-130	11	35	mg/kg	10.24.19 22:36	
Toluene	<0.00200	0.100	0.0989	99	0.109	109	70-130	10	35	mg/kg	10.24.19 22:36	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.106	106	70-130	8	35	mg/kg	10.24.19 22:36	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.212	106	70-130	8	35	mg/kg	10.24.19 22:36	
o-Xylene	<0.00200	0.100	0.0962	96	0.106	106	70-130	10	35	mg/kg	10.24.19 22:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		96		99		70-130	%	10.24.19 22:36
4-Bromofluorobenzene	89		93		101		70-130	%	10.24.19 22:36

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105310 — Matrix: Soil — Date Prep: 10.22.19
Parent Sample Id: 640558-029 — MS Sample Id: 640558-029 S — MSD Sample Id: 640558-029 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	0.0958	95	0.0922	93	70-130	4	35	mg/kg	10.24.19 12:27	
Toluene	<0.00201	0.101	0.0667	66	0.0624	63	70-130	7	35	mg/kg	10.24.19 12:27	X
Ethylbenzene	<0.00201	0.101	0.0497	49	0.0516	52	70-130	4	35	mg/kg	10.24.19 12:27	X
m,p-Xylenes	<0.00402	0.201	0.0962	48	0.102	52	70-130	6	35	mg/kg	10.24.19 12:27	X
o-Xylene	<0.00201	0.101	0.0484	48	0.0507	51	70-130	5	35	mg/kg	10.24.19 12:27	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		101		70-130	%	10.24.19 12:27
4-Bromofluorobenzene	122		112		70-130	%	10.24.19 12:27

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 640520

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3105402 Matrix: Soil Date Prep: 10.23.19

Parent Sample Id: 640520-001 MS Sample Id: 640520-001 S MSD Sample Id: 640520-001 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	0.0990	0.0556	56	0.0894	90	70-130	47	35	mg/kg	10.24.19 23:16	XF
Toluene	<0.00198	0.0990	0.0413	42	0.0638	64	70-130	43	35	mg/kg	10.24.19 23:16	XF
Ethylbenzene	<0.00198	0.0990	0.0312	32	0.0516	52	70-130	49	35	mg/kg	10.24.19 23:16	XF
m,p-Xylenes	<0.00396	0.198	0.0569	29	0.0880	44	70-130	43	35	mg/kg	10.24.19 23:16	XF
o-Xylene	<0.00198	0.0990	0.0327	33	0.0577	58	70-130	55	35	mg/kg	10.24.19 23:16	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		103		70-130	%	10.24.19 23:16
4-Bromofluorobenzene	105		98		70-130	%	10.24.19 23:16

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 534 of 744

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: 440520

www.xenco.com Page 1 of 3

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #4	Turn Around	
Project Number:	2RP-3760	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	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:	30	

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 0=8021)	Chloride (EPA 300.0)	Sample Comments
PH01	S	10/17/2019	1200	15	1	X	X	X	
PH02	S	10/17/2019	1210	1	1	X	X	X	
PH02A	S	10/17/2019	1215	2	1	X	X	X	
PH02B	S	10/17/2019	1220	3	1	X	X	X	
PH02C	S	10/17/2019	1225	4	1	X	X	X	
PH02D	S	10/17/2019	1230	5	1	X	X	X	
PH02E	S	10/17/2019	1240	6	1	X	X	X	
PH02F	S	10/17/2019	1250	7	1	X	X	X	
PH02G	S	10/17/2019	1300	8	1	X	X	X	
PH02H	S	10/17/2019	1310	9	1	X	X	X	

Total 200.7 / 6010 **200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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	Spencer Lo	Anna Byers	10/21/19 0845	2 Anna Byers	Costo J	10/21/19 09:10
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 76 of 84
Released to Imaging: 9/21/2022 2:36:52 PM

Page 535 of 744

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: 640520

Page 2 of 3

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #4	Turn Around	
Project Number:	2RP-3760	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
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)
PH02I	S	10/17/2019	1320	10	1	X	X	X
PH02J	S	10/17/2019	1335	12	1	X	X	X
PH02K	S	10/17/2019	1340	13	1	X	X	X
PH02L	S	10/17/2019	1350	14	1	X	X	X
PH02M	S	10/17/2019	1400	15	1	X	X	X
PH03	S	10/17/2019	1410	1	1	X	X	X
PH03A	S	10/17/2019	1415	2	1	X	X	X
PH03B	S	10/17/2019	1420	3	1	X	X	X
PH03C	S	10/17/2019	1430	4	1	X	X	X
PH03D	S	10/17/2019	1440	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

ice: 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
ervice. 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
enco. 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
Spencer Lo	Anne Byers	10/21/19 0845	2 Anne Byers	Cristina P	10/21/19 09:10
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 77 of 84
Released to Imaging: 9/21/2022 2:36:52 PM

Page 536 of 744

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: 1040520

Page 3 of 3

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #4	Turn Around	
Project Number:	2RP-3760	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
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)
PH03E	S	10/17/2019	1445	6				
PH03F	S	10/17/2019	1450	7				
PH03G	S	10/17/2019	1500	8				
PH03H	S	10/17/2019	1505	9				
PH03I	S	10/17/2019	1515	10				
PH03J	S	10/17/2019	1520	11				
PH03K	S	10/17/2019	1530	12				
PH03L	S	10/17/2019	1540	13				
PH03M	S	10/17/2019	1550	14				
PH03N	S	10/17/2019	1600	15				

ANALYSIS REQUEST

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

tice: 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 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 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
Spencer Lo	Anna Byers	10/21/19 0845	2 Anna Byers	Cortney J	10/21/19 09:10
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 78 of 84
Released to Imaging: 9/21/2022 2:36:52 PM

Inter-Office Shipment

IOS Number **50489**

Date/Time: 10/21/19 13:24
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776773967529

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
640520-001	S	PH01	10/17/19 12:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-001	S	PH01	10/17/19 12:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-001	S	PH01	10/17/19 12:00	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-002	S	PH02	10/17/19 12:10	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-002	S	PH02	10/17/19 12:10	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-002	S	PH02	10/17/19 12:10	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-003	S	PH02A	10/17/19 12:15	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-003	S	PH02A	10/17/19 12:15	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-003	S	PH02A	10/17/19 12:15	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-004	S	PH02B	10/17/19 12:20	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-004	S	PH02B	10/17/19 12:20	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-004	S	PH02B	10/17/19 12:20	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-005	S	PH02C	10/17/19 12:25	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-005	S	PH02C	10/17/19 12:25	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-005	S	PH02C	10/17/19 12:25	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-006	S	PH02D	10/17/19 12:30	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-006	S	PH02D	10/17/19 12:30	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-006	S	PH02D	10/17/19 12:30	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-007	S	PH02E	10/17/19 12:40	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-007	S	PH02E	10/17/19 12:40	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-007	S	PH02E	10/17/19 12:40	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-008	S	PH02F	10/17/19 12:50	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-008	S	PH02F	10/17/19 12:50	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-008	S	PH02F	10/17/19 12:50	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-009	S	PH02G	10/17/19 13:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment

IOS Number **50489**

Date/Time: 10/21/19 13:24
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776773967529

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
640520-009	S	PH02G	10/17/19 13:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-009	S	PH02G	10/17/19 13:00	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-010	S	PH02H	10/17/19 13:10	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-010	S	PH02H	10/17/19 13:10	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-010	S	PH02H	10/17/19 13:10	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-011	S	PH02I	10/17/19 13:20	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-011	S	PH02I	10/17/19 13:20	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-011	S	PH02I	10/17/19 13:20	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-012	S	PH02J	10/17/19 13:35	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-012	S	PH02J	10/17/19 13:35	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-012	S	PH02J	10/17/19 13:35	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-013	S	PH02K	10/17/19 13:40	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-013	S	PH02K	10/17/19 13:40	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-013	S	PH02K	10/17/19 13:40	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-014	S	PH02L	10/17/19 13:50	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-014	S	PH02L	10/17/19 13:50	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-014	S	PH02L	10/17/19 13:50	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-015	S	PH02M	10/17/19 14:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-015	S	PH02M	10/17/19 14:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-015	S	PH02M	10/17/19 14:00	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-016	S	PH03	10/17/19 14:10	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-016	S	PH03	10/17/19 14:10	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-016	S	PH03	10/17/19 14:10	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-017	S	PH03A	10/17/19 14:15	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-017	S	PH03A	10/17/19 14:15	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number **50489**

Date/Time: 10/21/19 13:24
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.: 776773967529
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
640520-017	S	PH03A	10/17/19 14:15	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-018	S	PH03B	10/17/19 14:20	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-018	S	PH03B	10/17/19 14:20	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-018	S	PH03B	10/17/19 14:20	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-019	S	PH03C	10/17/19 14:30	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-019	S	PH03C	10/17/19 14:30	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-019	S	PH03C	10/17/19 14:30	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-020	S	PH03D	10/17/19 14:40	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-020	S	PH03D	10/17/19 14:40	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-020	S	PH03D	10/17/19 14:40	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-021	S	PH03E	10/17/19 14:45	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-021	S	PH03E	10/17/19 14:45	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-021	S	PH03E	10/17/19 14:45	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-022	S	PH03F	10/17/19 14:50	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-022	S	PH03F	10/17/19 14:50	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-022	S	PH03F	10/17/19 14:50	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-023	S	PH03G	10/17/19 15:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-023	S	PH03G	10/17/19 15:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-023	S	PH03G	10/17/19 15:00	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-024	S	PH03H	10/17/19 15:05	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-024	S	PH03H	10/17/19 15:05	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-024	S	PH03H	10/17/19 15:05	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-025	S	PH03I	10/17/19 15:15	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-025	S	PH03I	10/17/19 15:15	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-025	S	PH03I	10/17/19 15:15	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:

Received By:

Inter-Office Shipment

IOS Number **50489**

Date/Time: 10/21/19 13:24
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776773967529

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
640520-026	S	PH03J	10/17/19 15:20	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-026	S	PH03J	10/17/19 15:20	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-026	S	PH03J	10/17/19 15:20	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-027	S	PH03K	10/17/19 15:30	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-027	S	PH03K	10/17/19 15:30	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-027	S	PH03K	10/17/19 15:30	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-028	S	PH03L	10/17/19 15:40	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-028	S	PH03L	10/17/19 15:40	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-028	S	PH03L	10/17/19 15:40	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-029	S	PH03M	10/17/19 15:50	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-029	S	PH03M	10/17/19 15:50	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-029	S	PH03M	10/17/19 15:50	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	
640520-030	S	PH03N	10/17/19 16:00	SW8015MOD_NM	TPH by SW8015 Mod	10/25/19	10/31/19	JKR	GRO-DRO PHCC10C28 PI	
640520-030	S	PH03N	10/17/19 16:00	SW8021B	BTEX by EPA 8021B	10/25/19	10/31/19	JKR	BR4FBZ BZ BZME EBZ X	
640520-030	S	PH03N	10/17/19 16:00	E300_CL	Chloride by EPA 300	10/25/19	04/14/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Date Relinquished: Elizabeth McClellan
10/21/2019

Date Received: Brianna Teel
10/22/2019 11:10
Cooler Temperature: 2.3

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 50489

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 10/21/2019 01:24 PM

Received By: Brianna Teel **Date Received:** 10/22/2019 11:10 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: 10/22/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/21/2019 09:10:00 AM

Work Order #: 640520

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?	**Yes**	
#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 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: Jessica Kramer Date: 10/22/2019

Jessica Kramer

Checklist reviewed by: Date: 10/21/2019

Analytical Report 640655

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal #1

2RP-3260

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)

Released to Imaging: 9/21/2022 2:36:52 PM

28-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640655**
Indian Flats Bass Federal #1
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) 640655. 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. 640655 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH04	S	10-18-19 09:10	1 ft	640655-001
PH04A	S	10-18-19 09:15	2 ft	640655-002
PH04B	S	10-18-19 09:25	3 ft	640655-003
PH04C	S	10-18-19 09:30	4 ft	640655-004
PH04D	S	10-18-19 09:35	5 ft	640655-005
PH04E	S	10-18-19 09:45	6 ft	640655-006
PH04F	S	10-18-19 09:55	7 ft	640655-007
PH04G	S	10-18-19 10:00	8 ft	640655-008
PH04H	S	10-18-19 10:10	9 ft	640655-009
PH04I	S	10-18-19 10:25	11 ft	640655-010
PH04J	S	10-18-19 10:30	12 ft	640655-011
PH04K	S	10-18-19 10:35	13 ft	640655-012
PH04L	S	10-18-19 10:45	14 ft	640655-013
PH04M	S	10-18-19 10:55	15 ft	640655-014
BH01	S	10-18-19 12:10	1 ft	640655-015
BH01A	S	10-18-19 12:15	2 ft	640655-016
BH02	S	10-18-19 12:20	1 ft	640655-017
BH02A	S	10-18-19 12:25	2 ft	640655-018

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal #1

Project ID: *2RP-3260*
Work Order Number(s): *640655*

Report Date: *28-OCT-19*
Date Received: *10/22/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105494 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3105497 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 640655

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #1

Project Id: 2RP-3260
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640655-001		640655-002		640655-003		640655-004		640655-005		640655-006	
	Field Id:	PH04		PH04A		PH04B		PH04C		PH04D		PH04E	
	Depth:	1- ft		2- ft		3- ft		4- ft		5- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 09:10		Oct-18-19 09:15		Oct-18-19 09:25		Oct-18-19 09:30		Oct-18-19 09:35		Oct-18-19 09:45	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-24-19 15:00		Oct-24-19 15:00		Oct-24-19 15:00		Oct-24-19 15:00		Oct-24-19 15:00		Oct-24-19 15:00	
	Analyzed:	Oct-26-19 20:37		Oct-26-19 20:57		Oct-26-19 21:17		Oct-26-19 21:37		Oct-26-19 21:57		Oct-26-19 22:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Toluene		<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Ethylbenzene		<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
m,p-Xylenes		<0.00403	0.00403	<0.00403	0.00403	<0.00402	0.00402	<0.00400	0.00400	<0.00401	0.00401	<0.00403	0.00403
o-Xylene		<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Total Xylenes		<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Total BTEX		<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-23-19 12:40		Oct-23-19 12:40		Oct-23-19 12:40		Oct-23-19 12:40		Oct-23-19 12:40		Oct-23-19 12:40	
	Analyzed:	Oct-23-19 15:13		Oct-23-19 15:28		Oct-23-19 15:33		Oct-23-19 15:38		Oct-23-19 15:43		Oct-23-19 15:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2900	25.0	2600	25.0	2090	25.0	1000	5.04	297	4.98	924	4.98
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00	
	Analyzed:	Oct-23-19 21:31		Oct-23-19 22:27		Oct-23-19 22:46		Oct-23-19 23:05		Oct-23-19 23:23		Oct-23-19 23:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	105	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total GRO-DRO		<49.9	49.9	105	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<49.9	49.9	105	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<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 Analysis Summary 640655

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #1

Project Id: 2RP-3260
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640655-007		640655-008		640655-009		640655-010		640655-011		640655-012	
	Field Id:	PH04F		PH04G		PH04H		PH04I		PH04J		PH04K	
	Depth:	7- ft		8- ft		9- ft		11- ft		12- ft		13- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 09:55		Oct-18-19 10:00		Oct-18-19 10:10		Oct-18-19 10:25		Oct-18-19 10:30		Oct-18-19 10:35	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-24-19 15:00		Oct-24-19 15:00		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30	
	Analyzed:	Oct-26-19 22:37		Oct-26-19 22:58		Oct-26-19 12:55		Oct-26-19 01:15		Oct-26-19 01:36		Oct-26-19 01:56	
	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	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00397	0.00397	<0.00396	0.00396	<0.00400	0.00400	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-23-19 12:40		Oct-23-19 12:40		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00	
	Analyzed:	Oct-23-19 15:53		Oct-23-19 15:58		Oct-23-19 16:28		Oct-23-19 16:47		Oct-23-19 16:52		Oct-23-19 16:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		617	5.02	290	4.96	422	4.95	1500	25.1	763	4.96	887	4.98
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00	
	Analyzed:	Oct-24-19 00:01		Oct-24-19 00:20		Oct-24-19 00:39		Oct-24-19 00:58		Oct-24-19 01:35		Oct-24-19 01:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total GRO-DRO		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<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 Analysis Summary 640655

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #1

Project Id: 2RP-3260
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640655-013		640655-014		640655-015		640655-016		640655-017		640655-018	
	Field Id:	PH04L		PH04M		BH01		BH01A		BH02		BH02A	
	Depth:	14- ft		15- ft		1- ft		2- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 10:45		Oct-18-19 10:55		Oct-18-19 12:10		Oct-18-19 12:15		Oct-18-19 12:20		Oct-18-19 12:25	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30	
	Analyzed:	Oct-26-19 02:16		Oct-26-19 02:36		Oct-26-19 02:56		Oct-26-19 03:16		Oct-26-19 03:37		Oct-26-19 03:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
m,p-Xylenes		<0.00404	0.00404	<0.00401	0.00401	<0.00402	0.00402	<0.00401	0.00401	<0.00398	0.00398	<0.00396	0.00396
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Total BTEX		<0.00202	0.00202	<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:***	Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00	
	Analyzed:	Oct-23-19 17:01		Oct-23-19 17:16		Oct-23-19 17:21		Oct-23-19 17:26		Oct-23-19 17:31		Oct-23-19 17:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		826	5.03	858	4.96	405	5.00	679	5.05	21.5	4.98	131	4.97
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00	
	Analyzed:	Oct-24-19 02:12		Oct-24-19 02:31		Oct-24-19 02:49		Oct-24-19 03:08		Oct-24-19 03:27		Oct-24-19 03:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	139	50.0	1050	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	192	50.0
Total GRO-DRO		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	139	50.0	1050	50.0
Total TPH		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	139	50.0	1240	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 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-001	Date Collected:	10.18.19 09.10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2900**	25.0	mg/kg	10.23.19 15.13		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 21.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 21.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 21.31	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 21.31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 21.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.23.19 21.31	
o-Terphenyl	84-15-1	110	%	70-135	10.23.19 21.31	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-001	Date Collected:	10.18.19 09.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.26.19 20.37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.26.19 20.37	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.26.19 20.37	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.26.19 20.37	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.26.19 20.37	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.26.19 20.37	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.26.19 20.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.26.19 20.37	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.26.19 20.37	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-002	Date Collected:	10.18.19 09.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2600**	25.0	mg/kg	10.23.19 15.28		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 22.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	**105**	50.0	mg/kg	10.23.19 22.27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 22.27	U	1
Total GRO-DRO	PHC628	**105**	50.0	mg/kg	10.23.19 22.27		1
Total TPH	PHC635	**105**	50.0	mg/kg	10.23.19 22.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.23.19 22.27	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 22.27	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-002	Date Collected:	10.18.19 09.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.26.19 20.57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.26.19 20.57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.26.19 20.57	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.26.19 20.57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.26.19 20.57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.26.19 20.57	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.26.19 20.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.26.19 20.57	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.26.19 20.57	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-003	Date Collected:	10.18.19 09.25	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2090**	25.0	mg/kg	10.23.19 15.33		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 22.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 22.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 22.46	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 22.46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 22.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	10.23.19 22.46	
o-Terphenyl	84-15-1	114	%	70-135	10.23.19 22.46	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-003	Date Collected:	10.18.19 09.25	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.26.19 21.17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.26.19 21.17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.26.19 21.17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.26.19 21.17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.26.19 21.17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.26.19 21.17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.26.19 21.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.26.19 21.17	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.26.19 21.17	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-004	Date Collected:	10.18.19 09.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1000**	5.04	mg/kg	10.23.19 15.38		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 23.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 23.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 23.05	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 23.05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 23.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.23.19 23.05	
o-Terphenyl	84-15-1	97	%	70-135	10.23.19 23.05	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-004	Date Collected:	10.18.19 09.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.26.19 21.37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.26.19 21.37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.26.19 21.37	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.26.19 21.37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.26.19 21.37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.26.19 21.37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.26.19 21.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.26.19 21.37	
1,4-Difluorobenzene	540-36-3	95	%	70-130	10.26.19 21.37	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04D**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-005	Date Collected:	10.18.19 09.35	Sample Depth:	5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**297**	4.98	mg/kg	10.23.19 15.43		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.23.19 23.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.23.19 23.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.23.19 23.23	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.23.19 23.23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.23.19 23.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 23.23	
o-Terphenyl	84-15-1	98	%	70-135	10.23.19 23.23	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04D**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-005	Date Collected:	10.18.19 09.35	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.26.19 21.57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.26.19 21.57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.26.19 21.57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.26.19 21.57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.26.19 21.57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.26.19 21.57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.26.19 21.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.26.19 21.57	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.26.19 21.57	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04E**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-006	Date Collected:	10.18.19 09.45	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**924**	4.98	mg/kg	10.23.19 15.48		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 23.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 23.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 23.42	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 23.42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 23.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.23.19 23.42	
o-Terphenyl	84-15-1	97	%	70-135	10.23.19 23.42	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04E**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-006	Date Collected:	10.18.19 09.45	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.26.19 22.17	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.26.19 22.17	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.26.19 22.17	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.26.19 22.17	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.26.19 22.17	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.26.19 22.17	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.26.19 22.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.26.19 22.17	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.26.19 22.17	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04F**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-007	Date Collected:	10.18.19 09.55	Sample Depth:	7 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**617**	5.02	mg/kg	10.23.19 15.53		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 00.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.24.19 00.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 00.01	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.24.19 00.01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.24.19 00.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.24.19 00.01	
o-Terphenyl	84-15-1	97	%	70-135	10.24.19 00.01	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04F**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-007	Date Collected:	10.18.19 09.55	Sample Depth:	7 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.26.19 22.37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.26.19 22.37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.26.19 22.37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.26.19 22.37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.26.19 22.37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.26.19 22.37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.26.19 22.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.26.19 22.37	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.26.19 22.37	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04G**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-008	Date Collected:	10.18.19 10.00	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 12.40	Basis:	Wet Weight
Seq Number:	3105210			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**290**	4.96	mg/kg	10.23.19 15.58		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 00.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 00.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 00.20	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 00.20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 00.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.24.19 00.20	
o-Terphenyl	84-15-1	99	%	70-135	10.24.19 00.20	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04G**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-008	Date Collected:	10.18.19 10.00	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 15.00	Basis:	Wet Weight
Seq Number:	3105494			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.26.19 22.58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.26.19 22.58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.26.19 22.58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.26.19 22.58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.26.19 22.58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.26.19 22.58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.26.19 22.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	10.26.19 22.58	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.26.19 22.58	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04H**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-009	Date Collected:	10.18.19 10.10	Sample Depth:	9 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**422**	4.95	mg/kg	10.23.19 16.28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.24.19 00.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.24.19 00.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.24.19 00.39	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.24.19 00.39	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.24.19 00.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.24.19 00.39	
o-Terphenyl	84-15-1	101	%	70-135	10.24.19 00.39	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04H**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-009	Date Collected:	10.18.19 10.10	Sample Depth:	9 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.26.19 12.55	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.26.19 12.55	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.26.19 12.55	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.26.19 12.55	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.26.19 12.55	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.26.19 12.55	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.26.19 12.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.26.19 12.55	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.26.19 12.55	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04I**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-010	Date Collected:	10.18.19 10.25	Sample Depth:	11 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1500**	25.1	mg/kg	10.23.19 16.47		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 00.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 00.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 00.58	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 00.58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 00.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.24.19 00.58	
o-Terphenyl	84-15-1	107	%	70-135	10.24.19 00.58	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04I**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-010	Date Collected:	10.18.19 10.25	Sample Depth:	11 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.26.19 01.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.26.19 01.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.26.19 01.15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.26.19 01.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.26.19 01.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.26.19 01.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.26.19 01.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.26.19 01.15	
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.26.19 01.15	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04J**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-011	Date Collected:	10.18.19 10.30	Sample Depth:	12 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**763**	4.96	mg/kg	10.23.19 16.52		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 01.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.24.19 01.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 01.35	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.24.19 01.35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.24.19 01.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.24.19 01.35	
o-Terphenyl	84-15-1	97	%	70-135	10.24.19 01.35	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04J**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-011	Date Collected:	10.18.19 10.30	Sample Depth:	12 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.26.19 01.36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.26.19 01.36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.26.19 01.36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.26.19 01.36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.26.19 01.36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.26.19 01.36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.26.19 01.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.26.19 01.36	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.26.19 01.36	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04K**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-012	Date Collected:	10.18.19 10.35	Sample Depth:	13 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**887**	4.98	mg/kg	10.23.19 16.57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 01.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 01.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 01.53	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 01.53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 01.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.24.19 01.53	
o-Terphenyl	84-15-1	104	%	70-135	10.24.19 01.53	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04K**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-012	Date Collected:	10.18.19 10.35	Sample Depth:	13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.26.19 01.56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.26.19 01.56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.26.19 01.56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.26.19 01.56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.26.19 01.56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.26.19 01.56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.26.19 01.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.26.19 01.56	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.26.19 01.56	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04L**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-013	Date Collected:	10.18.19 10.45	Sample Depth:	14 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**826**	5.03	mg/kg	10.23.19 17.01		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 02.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.24.19 02.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 02.12	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.24.19 02.12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.24.19 02.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.24.19 02.12	
o-Terphenyl	84-15-1	100	%	70-135	10.24.19 02.12	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04L**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-013	Date Collected:	10.18.19 10.45	Sample Depth:	14 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.26.19 02.16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.26.19 02.16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.26.19 02.16	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.26.19 02.16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.26.19 02.16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.26.19 02.16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.26.19 02.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	10.26.19 02.16	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.26.19 02.16	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04M**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-014	Date Collected:	10.18.19 10.55	Sample Depth:	15 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**858**	4.96	mg/kg	10.23.19 17.16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 02.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 02.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 02.31	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 02.31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 02.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.24.19 02.31	
o-Terphenyl	84-15-1	101	%	70-135	10.24.19 02.31	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04M**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-014	Date Collected:	10.18.19 10.55	Sample Depth:	15 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.26.19 02.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.26.19 02.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.26.19 02.36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.26.19 02.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.26.19 02.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.26.19 02.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.26.19 02.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.26.19 02.36	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.26.19 02.36	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-015	Date Collected:	10.18.19 12.10	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**405**	5.00	mg/kg	10.23.19 17.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.24.19 02.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.24.19 02.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.24.19 02.49	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.24.19 02.49	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.24.19 02.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.24.19 02.49	
o-Terphenyl	84-15-1	98	%	70-135	10.24.19 02.49	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-015	Date Collected:	10.18.19 12.10	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.26.19 02.56	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.26.19 02.56	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.26.19 02.56	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.26.19 02.56	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.26.19 02.56	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.26.19 02.56	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.26.19 02.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.26.19 02.56	
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.26.19 02.56	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-016	Date Collected:	10.18.19 12.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**679**	5.05	mg/kg	10.23.19 17.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 03.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 03.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 03.08	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 03.08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 03.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	10.24.19 03.08	
o-Terphenyl	84-15-1	119	%	70-135	10.24.19 03.08	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-016	Date Collected:	10.18.19 12.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.26.19 03.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.26.19 03.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.26.19 03.16	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.26.19 03.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.26.19 03.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.26.19 03.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.26.19 03.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.26.19 03.16	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.26.19 03.16	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-017	Date Collected:	10.18.19 12.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.5**	4.98	mg/kg	10.23.19 17.31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 03.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	**139**	50.0	mg/kg	10.24.19 03.27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 03.27	U	1
Total GRO-DRO	PHC628	**139**	50.0	mg/kg	10.24.19 03.27		1
Total TPH	PHC635	**139**	50.0	mg/kg	10.24.19 03.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.24.19 03.27	
o-Terphenyl	84-15-1	99	%	70-135	10.24.19 03.27	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-017	Date Collected:	10.18.19 12.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.26.19 03.37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.26.19 03.37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.26.19 03.37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.26.19 03.37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.26.19 03.37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.26.19 03.37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.26.19 03.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.26.19 03.37	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.26.19 03.37	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-018	Date Collected:	10.18.19 12.25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**131**	4.97	mg/kg	10.23.19 17.36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105206			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 03.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1050**	50.0	mg/kg	10.24.19 03.46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**192**	50.0	mg/kg	10.24.19 03.46		1
Total GRO-DRO	PHC628	**1050**	50.0	mg/kg	10.24.19 03.46		1
Total TPH	PHC635	**1240**	50.0	mg/kg	10.24.19 03.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.24.19 03.46	
o-Terphenyl	84-15-1	110	%	70-135	10.24.19 03.46	

Certificate of Analytical Results 640655

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640655-018	Date Collected:	10.18.19 12.25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.26.19 03.57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.26.19 03.57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.26.19 03.57	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.26.19 03.57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.26.19 03.57	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.26.19 03.57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.26.19 03.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.26.19 03.57	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.26.19 03.57	

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

Released to Imaging: 9/21/2022 2:36:52 PM

QC Summary 640655

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105210 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688720-1-BLK — LCS Sample Id: 7688720-1-BKS — LCSD Sample Id: 7688720-1-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	260	104	254	102	90-110	2	20	mg/kg	10.23.19 13:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105211 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688721-1-BLK — LCS Sample Id: 7688721-1-BKS — LCSD Sample Id: 7688721-1-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	259	104	262	105	90-110	1	20	mg/kg	10.23.19 16:18	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105210 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640652-001 — MS Sample Id: 640652-001 S — MSD Sample Id: 640652-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	31.8	250	288	102	292	104	90-110	1	20	mg/kg	10.23.19 13:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105210 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640652-011 — MS Sample Id: 640652-011 S — MSD Sample Id: 640652-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	645	253	872	90	879	92	90-110	1	20	mg/kg	10.23.19 14:50	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105211 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640655-009 — MS Sample Id: 640655-009 S — MSD Sample Id: 640655-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	422	248	661	96	663	97	90-110	0	20	mg/kg	10.23.19 16:33	

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 640655

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3105211 Matrix: Soil Date Prep: 10.23.19
Parent Sample Id: 640657-001 MS Sample Id: 640657-001 S MSD Sample Id: 640657-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	229	252	483	101	477	98	90-110	1	20	mg/kg	10.23.19 17:46	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105206 Matrix: Solid Date Prep: 10.23.19
MB Sample Id: 7688740-1-BLK LCS Sample Id: 7688740-1-BKS LCSD Sample Id: 7688740-1-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	1170	117	1130	113	70-135	3	20	mg/kg	10.23.19 20:54	
Diesel Range Organics (DRO)	<15.0	1000	1030	103	1060	106	70-135	3	20	mg/kg	10.23.19 20:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		129		122		70-135	%	10.23.19 20:54
o-Terphenyl	103		116		119		70-135	%	10.23.19 20:54

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105206 Matrix: Solid Date Prep: 10.23.19
MB Sample Id: 7688740-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.23.19 20:35	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3105206 Matrix: Soil Date Prep: 10.23.19
Parent Sample Id: 640655-001 MS Sample Id: 640655-001 S MSD Sample Id: 640655-001 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	1230	123	1240	124	70-135	1	20	mg/kg	10.23.19 21:50	
Diesel Range Organics (DRO)	<15.0	999	1200	120	1220	122	70-135	2	20	mg/kg	10.23.19 21:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		129		70-135	%	10.23.19 21:50
o-Terphenyl	123		122		70-135	%	10.23.19 21:50

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

QC Summary 640655

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105494 — Matrix: Solid — Date Prep: 10.24.19
MB Sample Id: 7688837-1-BLK — LCS Sample Id: 7688837-1-BKS — LCSD Sample Id: 7688837-1-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	0.114	114	70-130	4	35	mg/kg	10.26.19 13:37	
Toluene	<0.00200	0.100	0.105	105	0.0994	99	70-130	5	35	mg/kg	10.26.19 13:37	
Ethylbenzene	<0.00200	0.100	0.105	105	0.0953	95	70-130	10	35	mg/kg	10.26.19 13:37	
m,p-Xylenes	<0.00400	0.200	0.211	106	0.189	95	70-130	11	35	mg/kg	10.26.19 13:37	
o-Xylene	<0.00200	0.100	0.106	106	0.0951	95	70-130	11	35	mg/kg	10.26.19 13:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		97		101		70-130	%	10.26.19 13:37
4-Bromofluorobenzene	95		106		93		70-130	%	10.26.19 13:37

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105497 — Matrix: Solid — Date Prep: 10.25.19
MB Sample Id: 7688934-1-BLK — LCS Sample Id: 7688934-1-BKS — LCSD Sample Id: 7688934-1-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	0.0992	99	0.114	114	70-130	14	35	mg/kg	10.25.19 18:35	
Toluene	<0.00200	0.100	0.0901	90	0.104	104	70-130	14	35	mg/kg	10.25.19 18:35	
Ethylbenzene	<0.00200	0.100	0.0889	89	0.103	103	70-130	15	35	mg/kg	10.25.19 18:35	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.207	104	70-130	13	35	mg/kg	10.25.19 18:35	
o-Xylene	<0.00200	0.100	0.0863	86	0.102	102	70-130	17	35	mg/kg	10.25.19 18:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		96		102		70-130	%	10.25.19 18:35
4-Bromofluorobenzene	91		98		109		70-130	%	10.25.19 18:35

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105494 — Matrix: Soil — Date Prep: 10.24.19
Parent Sample Id: 640652-001 — MS Sample Id: 640652-001 S — MSD Sample Id: 640652-001 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	0.0990	0.0522	53	0.112	112	70-130	73	35	mg/kg	10.26.19 14:17	XF
Toluene	<0.00198	0.0990	0.0299	30	0.105	105	70-130	111	35	mg/kg	10.26.19 14:17	XF
Ethylbenzene	<0.00198	0.0990	0.0225	23	0.106	106	70-130	130	35	mg/kg	10.26.19 14:17	XF
m,p-Xylenes	<0.00396	0.198	0.0477	24	0.223	112	70-130	130	35	mg/kg	10.26.19 14:17	XF
o-Xylene	<0.00198	0.0990	0.0289	29	0.118	118	70-130	121	35	mg/kg	10.26.19 14:17	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		70-130	%	10.26.19 14:17
4-Bromofluorobenzene	119		117		70-130	%	10.26.19 14:17

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 640655

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3105497 Matrix: Soil Date Prep: 10.25.19

Parent Sample Id: 640657-001 MS Sample Id: 640657-001 S MSD Sample Id: 640657-001 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	0.110	110	0.104	104	70-130	6	35	mg/kg	10.25.19 19:15	
Toluene	<0.00200	0.100	0.101	101	0.0980	98	70-130	3	35	mg/kg	10.25.19 19:15	
Ethylbenzene	<0.00200	0.100	0.102	102	0.0968	97	70-130	5	35	mg/kg	10.25.19 19:15	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.197	99	70-130	4	35	mg/kg	10.25.19 19:15	
o-Xylene	<0.00200	0.100	0.0931	93	0.0881	88	70-130	6	35	mg/kg	10.25.19 19:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		105		70-130	%	10.25.19 19:15
4-Bromofluorobenzene	99		102		70-130	%	10.25.19 19:15

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 591 of 744

Chain of Custody

Work Order No: 1401655

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 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:	slo@ltenv.com, dmoir@ltenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #1
Project Number:	2RP-3260
P.O. Number:	
Sampler's Name:	Spencer Lo

Turn Around: Routine X | Rush: | Due Date:

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.0	Thermometer ID	T-NM-007
Received Intact:	(Yes) No	Correction Factor:	-0.2
Cooler Custody Seals:	Yes No N/A	Total Containers:	18
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 0=8021)	Chloride (EPA 300.0)
PH04	S	10/18/2019	910	1	1	X	X	X
PH04A	S	10/18/2019	915	2	1	X	X	X
PH04B	S	10/18/2019	925	3	1	X	X	X
PH04C	S	10/18/2019	930	4	1	X	X	X
PH04D	S	10/18/2019	935	5	1	X	X	X
PH04E	S	10/18/2019	945	6	1	X	X	X
PH04F	S	10/18/2019	955	7	1	X	X	X
PH04G	S	10/18/2019	1000	8	1	X	X	X
PH04H	S	10/18/2019	1010	9	1	X	X	X
PH04I	S	10/18/2019	1025	11	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	10/22/19 1010	2 Anna Byers	Costa J	10/22/19 10:50
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 49 of 55
Released to Imaging: 9/21/2022 2:36:52 PM

Page 592 of 744

Chain of Custody

Work Order No: 6406655

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 2 of 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #1	Turn Around	
Project Number:	2RP-3260	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
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)
PH04J	S	10/18/2019	1030	12	1	X	X	X
PH04K	S	10/18/2019	1035	13	1	X	X	X
PH04L	S	10/18/2019	1045	14	1	X	X	X
PH04M	S	10/18/2019	1055	15	1	X	X	X
BH01	S	10/18/2019	1210	1	1	X	X	X
BH01A	S	10/18/2019	1215	2	1	X	X	X
BH02	S	10/18/2019	1220	1	1	X	X	X
BH02A	S	10/18/2019	1225	2	1	X	X	X

ANALYSIS REQUEST

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
	Anna Byers	10/22/19 1010	2 Anna Byers		10/22/19 10:50
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Released to Imaging: 9/21/2022 2:36:52 PM
Final 1.000
Page 50 of 55

Inter-Office Shipment

IOS Number **50574**

Date/Time: 10/22/19 12:30
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776785946410

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
640655-001	S	PH04	10/18/19 09:10	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-001	S	PH04	10/18/19 09:10	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-001	S	PH04	10/18/19 09:10	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-002	S	PH04A	10/18/19 09:15	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-002	S	PH04A	10/18/19 09:15	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-002	S	PH04A	10/18/19 09:15	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-003	S	PH04B	10/18/19 09:25	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-003	S	PH04B	10/18/19 09:25	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-003	S	PH04B	10/18/19 09:25	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-004	S	PH04C	10/18/19 09:30	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-004	S	PH04C	10/18/19 09:30	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-004	S	PH04C	10/18/19 09:30	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-005	S	PH04D	10/18/19 09:35	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-005	S	PH04D	10/18/19 09:35	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-005	S	PH04D	10/18/19 09:35	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-006	S	PH04E	10/18/19 09:45	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-006	S	PH04E	10/18/19 09:45	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-006	S	PH04E	10/18/19 09:45	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-007	S	PH04F	10/18/19 09:55	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-007	S	PH04F	10/18/19 09:55	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-007	S	PH04F	10/18/19 09:55	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-008	S	PH04G	10/18/19 10:00	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-008	S	PH04G	10/18/19 10:00	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-008	S	PH04G	10/18/19 10:00	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-009	S	PH04H	10/18/19 10:10	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	

Inter-Office Shipment

IOS Number **50574**

Date/Time: 10/22/19 12:30
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.: 776785946410
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
640655-009	S	PH04H	10/18/19 10:10	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-009	S	PH04H	10/18/19 10:10	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-010	S	PH04I	10/18/19 10:25	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-010	S	PH04I	10/18/19 10:25	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-010	S	PH04I	10/18/19 10:25	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-011	S	PH04J	10/18/19 10:30	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-011	S	PH04J	10/18/19 10:30	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-011	S	PH04J	10/18/19 10:30	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-012	S	PH04K	10/18/19 10:35	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-012	S	PH04K	10/18/19 10:35	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-012	S	PH04K	10/18/19 10:35	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-013	S	PH04L	10/18/19 10:45	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-013	S	PH04L	10/18/19 10:45	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-013	S	PH04L	10/18/19 10:45	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-014	S	PH04M	10/18/19 10:55	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-014	S	PH04M	10/18/19 10:55	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-014	S	PH04M	10/18/19 10:55	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-015	S	BH01	10/18/19 12:10	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-015	S	BH01	10/18/19 12:10	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-015	S	BH01	10/18/19 12:10	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-016	S	BH01A	10/18/19 12:15	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-016	S	BH01A	10/18/19 12:15	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-016	S	BH01A	10/18/19 12:15	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-017	S	BH02	10/18/19 12:20	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-017	S	BH02	10/18/19 12:20	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number **50574**

Date/Time: 10/22/19 12:30
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776785946410

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
640655-017	S	BH02	10/18/19 12:20	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640655-018	S	BH02A	10/18/19 12:25	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640655-018	S	BH02A	10/18/19 12:25	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640655-018	S	BH02A	10/18/19 12:25	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan
Date Relinquished: 10/22/2019

Received By: Brianna Teel
Date Received: 10/23/2019 11:02
Cooler Temperature: 0.3

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 50574

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 10/22/2019 12:30 PM

Received By: Brianna Teel **Date Received:** 10/23/2019 11:02 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.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: 10/23/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/22/2019 10:50:00 AM

Work Order #: 640655

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)?	**Yes**	Subbed to 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: 10/22/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

Analytical Report 640659

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal #1

2RP-3260

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)

Released to Imaging: 9/21/2022 2:36:52 PM

28-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640659**
Indian Flats Bass Federal #1
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) 640659. 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. 640659 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH05	S	10-18-19 17:45	1 ft	640659-001
PH05A	S	10-18-19 17:55	2 ft	640659-002
PH05B	S	10-18-19 18:00	3 ft	640659-003
PH05C	S	10-18-19 18:10	4 ft	640659-004
PH05D	S	10-18-19 18:20	5 ft	640659-005
PH05E	S	10-18-19 18:25	6 ft	640659-006
PH05F	S	10-18-19 18:35	8 ft	640659-007
PH05G	S	10-18-19 18:45	9 ft	640659-008
PH05H	S	10-18-19 18:50	10 ft	640659-009
PH05I	S	10-18-19 18:55	11 ft	640659-010
PH05J	S	10-18-19 19:00	13 ft	640659-011
PH05K	S	10-18-19 19:10	14 ft	640659-012
PH05L	S	10-18-19 19:20	15 ft	640659-013

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal #1

Project ID: *2RP-3260*
Work Order Number(s): *640659*

Report Date: *28-OCT-19*
Date Received: *10/22/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105434 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 640659

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #1

Project Id: 2RP-3260
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640659-001		640659-002		640659-003		640659-004		640659-005		640659-006	
	Field Id:	PH05		PH05A		PH05B		PH05C		PH05D		PH05E	
	Depth:	1- ft		2- ft		3- ft		4- ft		5- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 17:45		Oct-18-19 17:55		Oct-18-19 18:00		Oct-18-19 18:10		Oct-18-19 18:20		Oct-18-19 18:25	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00	
	Analyzed:	Oct-25-19 11:15		Oct-25-19 11:35		Oct-25-19 11:55		Oct-25-19 12:15		Oct-25-19 12:36		Oct-25-19 12:56	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199
m,p-Xylenes		<0.00399	0.00399	<0.00399	0.00399	<0.00399	0.00399	<0.00397	0.00397	<0.00402	0.00402	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00201	0.00201	<0.00199	0.00199
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40	
	Analyzed:	Oct-23-19 19:16		Oct-23-19 19:31		Oct-23-19 19:36		Oct-23-19 19:41		Oct-23-19 19:46		Oct-23-19 20:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		154	4.96	315	5.02	1320	5.05	1830	25.3	2590	24.9	1760	25.2
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00	
	Analyzed:	Oct-23-19 22:56		Oct-23-19 23:59		Oct-24-19 00:21		Oct-24-19 00:42		Oct-24-19 01:02		Oct-24-19 01:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Total GRO-DRO		<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Total TPH		<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8

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

Certificate of Analysis Summary 640659

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #1

Project Id: 2RP-3260
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640659-007		640659-008		640659-009		640659-010		640659-011		640659-012	
	Field Id:	PH05F		PH05G		PH05H		PH05I		PH05J		PH05K	
	Depth:	8- ft		9- ft		10- ft		11- ft		13- ft		14- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 18:35		Oct-18-19 18:45		Oct-18-19 18:50		Oct-18-19 18:55		Oct-18-19 19:00		Oct-18-19 19:10	
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00		Oct-24-19 14:00	
	Analyzed:	Oct-25-19 02:15		Oct-25-19 02:35		Oct-25-19 02:55		Oct-25-19 03:15		Oct-25-19 03:35		Oct-25-19 03:55	
	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	<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00404	0.00404	<0.00398	0.00398	<0.00397	0.00397	<0.00397	0.00397	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40		Oct-23-19 13:40	
	Analyzed:	Oct-24-19 08:49		Oct-23-19 20:11		Oct-23-19 20:16		Oct-23-19 20:21		Oct-23-19 20:26		Oct-23-19 20:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1740	25.3	1440	5.05	1170	5.05	1120	4.95	628	5.00	536	4.97
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00		Oct-23-19 15:00	
	Analyzed:	Oct-24-19 01:44		Oct-24-19 02:05		Oct-24-19 02:26		Oct-24-19 02:47		Oct-24-19 03:29		Oct-24-19 03:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.8	49.8
Total GRO-DRO		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.8	49.8
Total TPH		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.8	49.8

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

Certificate of Analysis Summary 640659

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #1

Project Id: 2RP-3260
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	640659-013					
	Field Id:	PH05L					
	Depth:	15- ft					
	Matrix:	SOIL					
	Sampled:	Oct-18-19 19:20					
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Oct-24-19 14:00					
	Analyzed:	Oct-25-19 04:15					
	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 SUB: T104704400-19-19	***Extracted:***	Oct-23-19 13:40					
	Analyzed:	Oct-23-19 20:46					
	Units/RL:	mg/kg	RL				
Chloride		922	4.99				
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Oct-23-19 15:00					
	Analyzed:	Oct-24-19 04:11					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9				
Diesel Range Organics (DRO)		<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9				
Total GRO-DRO		<49.9	49.9				
Total TPH		<49.9	49.9				

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

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-001	Date Collected:	10.18.19 17.45	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**154**	4.96	mg/kg	10.23.19 19.16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 22.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 22.56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 22.56	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 22.56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 22.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.23.19 22.56	
o-Terphenyl	84-15-1	104	%	70-135	10.23.19 22.56	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-001	Date Collected:	10.18.19 17.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 11.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 11.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 11.15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.25.19 11.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 11.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 11.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 11.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	129	%	70-130	10.25.19 11.15	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.25.19 11.15	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-002	Date Collected:	10.18.19 17.55	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**315**	5.02	mg/kg	10.23.19 19.31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.23.19 23.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.23.19 23.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.23.19 23.59	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.23.19 23.59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.23.19 23.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.23.19 23.59	
o-Terphenyl	84-15-1	101	%	70-135	10.23.19 23.59	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-002	Date Collected:	10.18.19 17.55	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 11.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 11.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 11.35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.25.19 11.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 11.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 11.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 11.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.25.19 11.35	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.25.19 11.35	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-003	Date Collected:	10.18.19 18.00	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1320**	5.05	mg/kg	10.23.19 19.36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 00.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 00.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 00.21	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 00.21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 00.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.24.19 00.21	
o-Terphenyl	84-15-1	107	%	70-135	10.24.19 00.21	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-003	Date Collected:	10.18.19 18.00	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 11.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 11.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 11.55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.25.19 11.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 11.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 11.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 11.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.25.19 11.55	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.25.19 11.55	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-004	Date Collected:	10.18.19 18.10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1830**	25.3	mg/kg	10.23.19 19.41		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 00.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 00.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 00.42	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 00.42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 00.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.24.19 00.42	
o-Terphenyl	84-15-1	108	%	70-135	10.24.19 00.42	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-004	Date Collected:	10.18.19 18.10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.25.19 12.15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.25.19 12.15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.25.19 12.15	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.25.19 12.15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.25.19 12.15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.25.19 12.15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.25.19 12.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.25.19 12.15	
1,4-Difluorobenzene	540-36-3	110	%	70-130	10.25.19 12.15	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05D**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-005	Date Collected:	10.18.19 18.20	Sample Depth:	5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2590**	24.9	mg/kg	10.23.19 19.46		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 01.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.24.19 01.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 01.02	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.24.19 01.02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.24.19 01.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.24.19 01.02	
o-Terphenyl	84-15-1	105	%	70-135	10.24.19 01.02	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05D**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-005	Date Collected:	10.18.19 18.20	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.25.19 12.36	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.25.19 12.36	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.25.19 12.36	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.25.19 12.36	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.25.19 12.36	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.25.19 12.36	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.25.19 12.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.25.19 12.36	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.25.19 12.36	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05E**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-006	Date Collected:	10.18.19 18.25	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1760**	25.2	mg/kg	10.23.19 20.01		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.24.19 01.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.24.19 01.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.24.19 01.23	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.24.19 01.23	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.24.19 01.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.24.19 01.23	
o-Terphenyl	84-15-1	107	%	70-135	10.24.19 01.23	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05E**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-006	Date Collected:	10.18.19 18.25	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 12.56	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 12.56	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 12.56	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 12.56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 12.56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 12.56	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 12.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.25.19 12.56	
4-Bromofluorobenzene	460-00-4	105	%	70-130	10.25.19 12.56	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05F**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-007	Date Collected:	10.18.19 18.35	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1740**	25.3	mg/kg	10.24.19 08.49		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 01.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 01.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 01.44	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 01.44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 01.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.24.19 01.44	
o-Terphenyl	84-15-1	106	%	70-135	10.24.19 01.44	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05F**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-007	Date Collected:	10.18.19 18.35	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.25.19 02.15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.25.19 02.15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.25.19 02.15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.25.19 02.15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.25.19 02.15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.25.19 02.15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.25.19 02.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.25.19 02.15	
4-Bromofluorobenzene	460-00-4	101	%	70-130	10.25.19 02.15	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05G**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-008	Date Collected:	10.18.19 18.45	Sample Depth:	9 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1440**	5.05	mg/kg	10.23.19 20.11		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 02.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.24.19 02.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 02.05	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.24.19 02.05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.24.19 02.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.24.19 02.05	
o-Terphenyl	84-15-1	107	%	70-135	10.24.19 02.05	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05G**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-008	Date Collected:	10.18.19 18.45	Sample Depth:	9 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.25.19 02.35	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.25.19 02.35	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.25.19 02.35	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.25.19 02.35	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.25.19 02.35	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.25.19 02.35	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.25.19 02.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.25.19 02.35	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.25.19 02.35	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05H**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-009	Date Collected:	10.18.19 18.50	Sample Depth:	10 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1170**	5.05	mg/kg	10.23.19 20.16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 02.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.24.19 02.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 02.26	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.24.19 02.26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.24.19 02.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.24.19 02.26	
o-Terphenyl	84-15-1	109	%	70-135	10.24.19 02.26	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05H**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-009	Date Collected:	10.18.19 18.50	Sample Depth:	10 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 02.55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 02.55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 02.55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 02.55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 02.55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 02.55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 02.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.25.19 02.55	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.25.19 02.55	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05I**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-010	Date Collected:	10.18.19 18.55	Sample Depth:	11 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1120**	4.95	mg/kg	10.23.19 20.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 02.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 02.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 02.47	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 02.47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 02.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.24.19 02.47	
o-Terphenyl	84-15-1	112	%	70-135	10.24.19 02.47	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05I**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-010	Date Collected:	10.18.19 18.55	Sample Depth:	11 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.25.19 03.15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.25.19 03.15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.25.19 03.15	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.25.19 03.15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.25.19 03.15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.25.19 03.15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.25.19 03.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.25.19 03.15	
4-Bromofluorobenzene	460-00-4	95	%	70-130	10.25.19 03.15	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05J**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-011	Date Collected:	10.18.19 19.00	Sample Depth:	13 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**628**	5.00	mg/kg	10.23.19 20.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 03.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 03.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 03.29	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 03.29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 03.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.24.19 03.29	
o-Terphenyl	84-15-1	107	%	70-135	10.24.19 03.29	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05J**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-011	Date Collected:	10.18.19 19.00	Sample Depth:	13 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.25.19 03.35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.25.19 03.35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.25.19 03.35	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.25.19 03.35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.25.19 03.35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.25.19 03.35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.25.19 03.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.25.19 03.35	
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.25.19 03.35	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05K**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-012	Date Collected:	10.18.19 19.10	Sample Depth:	14 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**536**	4.97	mg/kg	10.23.19 20.41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.24.19 03.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.24.19 03.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.24.19 03.50	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.24.19 03.50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.24.19 03.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.24.19 03.50	
o-Terphenyl	84-15-1	103	%	70-135	10.24.19 03.50	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05K**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-012	Date Collected:	10.18.19 19.10	Sample Depth:	14 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 03.55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 03.55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 03.55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 03.55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 03.55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 03.55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 03.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.25.19 03.55	
1,4-Difluorobenzene	540-36-3	94	%	70-130	10.25.19 03.55	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05L**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-013	Date Collected:	10.18.19 19.20	Sample Depth:	15 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.40	Basis:	Wet Weight
Seq Number:	3105213			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**922**	4.99	mg/kg	10.23.19 20.46		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 15.00	Basis:	Wet Weight
Seq Number:	3105282			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 04.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.24.19 04.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 04.11	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.24.19 04.11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.24.19 04.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.24.19 04.11	
o-Terphenyl	84-15-1	107	%	70-135	10.24.19 04.11	

Certificate of Analytical Results 640659

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH05L**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640659-013	Date Collected:	10.18.19 19.20	Sample Depth:	15 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.24.19 14.00	Basis:	Wet Weight
Seq Number:	3105434			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 04.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 04.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 04.15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.25.19 04.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 04.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 04.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 04.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.25.19 04.15	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.25.19 04.15	

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: 9/21/2022 2:36:52 PM

QC Summary 640659

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105213 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688722-1-BLK — LCS Sample Id: 7688722-1-BKS — LCSD Sample Id: 7688722-1-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	264	106	263	105	90-110	0	20	mg/kg	10.23.19 19:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105213 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640659-001 — MS Sample Id: 640659-001 S — MSD Sample Id: 640659-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	154	248	420	107	415	105	90-110	1	20	mg/kg	10.23.19 19:21	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105213 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640659-011 — MS Sample Id: 640659-011 S — MSD Sample Id: 640659-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	628	250	854	90	867	96	90-110	2	20	mg/kg	10.23.19 20:31	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105282 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688742-1-BLK — LCS Sample Id: 7688742-1-BKS — LCSD Sample Id: 7688742-1-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	1130	113	1150	115	70-135	2	20	mg/kg	10.23.19 22:15	
Diesel Range Organics (DRO)	<15.0	1000	1120	112	1130	113	70-135	1	20	mg/kg	10.23.19 22:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		117		118		70-135	%	10.23.19 22:15
o-Terphenyl	115		118		123		70-135	%	10.23.19 22:15

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105282 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688742-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.23.19 21:54	

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 640659

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3105282 | Matrix: Soil | Date Prep: 10.23.19
Parent Sample Id: 640659-001 | MS Sample Id: 640659-001 S | MSD Sample Id: 640659-001 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)	<14.9	996	1200	120	1200	120	70-135	0	20	mg/kg	10.23.19 23:17	
Diesel Range Organics (DRO)	32.9	996	1150	112	1140	111	70-135	1	20	mg/kg	10.23.19 23:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		111		70-135	%	10.23.19 23:17
o-Terphenyl	113		110		70-135	%	10.23.19 23:17

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3105434 | Matrix: Solid | Date Prep: 10.24.19
MB Sample Id: 7688839-1-BLK | LCS Sample Id: 7688839-1-BKS | LCSD Sample Id: 7688839-1-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	0.111	111	70-130	5	35	mg/kg	10.25.19 02:25	
Toluene	<0.00200	0.100	0.0927	93	0.0982	98	70-130	6	35	mg/kg	10.25.19 02:25	
Ethylbenzene	<0.00200	0.100	0.0904	90	0.0952	95	70-130	5	35	mg/kg	10.25.19 02:25	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.189	95	70-130	5	35	mg/kg	10.25.19 02:25	
o-Xylene	<0.00200	0.100	0.0851	85	0.0904	90	70-130	6	35	mg/kg	10.25.19 02:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		96		101		70-130	%	10.25.19 02:25
4-Bromofluorobenzene	90		100		104		70-130	%	10.25.19 02:25

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3105434 | Matrix: Soil | Date Prep: 10.24.19
Parent Sample Id: 640659-001 | MS Sample Id: 640659-001 S | MSD Sample Id: 640659-001 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	0.100	100	0.102	102	70-130	2	35	mg/kg	10.25.19 03:05	
Toluene	<0.00200	0.100	0.0863	86	0.0908	91	70-130	5	35	mg/kg	10.25.19 03:05	
Ethylbenzene	<0.00200	0.100	0.0860	86	0.0840	84	70-130	2	35	mg/kg	10.25.19 03:05	
m,p-Xylenes	<0.00400	0.200	0.173	87	0.168	84	70-130	3	35	mg/kg	10.25.19 03:05	
o-Xylene	<0.00200	0.100	0.0819	82	0.0821	82	70-130	0	35	mg/kg	10.25.19 03:05	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	10.25.19 03:05
4-Bromofluorobenzene	116		105		70-130	%	10.25.19 03:05

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

Page 634 of 744

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: 640659

www.xenco.com Page 1 of 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #1	Turn Around	
Project Number:	2RP-3260	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.0	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:	13

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH05	S	10/18/2019	1745	1	1	X	X	X
PH05A	S	10/18/2019	1755	2	1	X	X	X
PH05B	S	10/18/2019	1800	3	1	X	X	X
PH05C	S	10/18/2019	1810	4	1	X	X	X
PH05D	S	10/18/2019	1820	5	1	X	X	X
PH05E	S	10/18/2019	1825	6	1	X	X	X
PH05F	S	10/18/2019	1835	8	1	X	X	X
PH05G	S	10/18/2019	1845	9	1	X	X	X
PH05H	S	10/18/2019	1850	10	1	X	X	X
PH05I	S	10/18/2019	1855	11	1	X	X	X

ANALYSIS REQUEST

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

ice: 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
ervice. 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
enco. 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	10/22/19 1010	2	Anna Byers		10/22/19 1050
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 37 of 42
Released to Imaging: 9/21/2022 2:36:52 PM

Page 635 of 744

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: 640659

Page 1 of 2

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #1	Turn Around	
Project Number:	2RP-3260	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
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)
PH05J	S	10/18/2019	1900	13	1	X	X	X
PH05K	S	10/18/2019	1910	14	1	X	X	X
PH05L	S	10/18/2019	1920	15	1	X	X	X

ANALYSIS REQUEST

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

ice: 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
ervice. 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
enco. 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
	Anna Byers	10/22/19 1010	2 Anna Byers	Cortez	10/22/19 10:50
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 38 of 42
Released to Imaging: 9/21/2022 2:36:52 PM

Inter-Office Shipment

IOS Number **50598**

Date/Time: 10/22/19 12:43
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776785946410

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
640659-001	S	PH05	10/18/19 17:45	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-001	S	PH05	10/18/19 17:45	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-001	S	PH05	10/18/19 17:45	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-002	S	PH05A	10/18/19 17:55	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-002	S	PH05A	10/18/19 17:55	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-002	S	PH05A	10/18/19 17:55	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-003	S	PH05B	10/18/19 18:00	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-003	S	PH05B	10/18/19 18:00	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-003	S	PH05B	10/18/19 18:00	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-004	S	PH05C	10/18/19 18:10	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-004	S	PH05C	10/18/19 18:10	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-004	S	PH05C	10/18/19 18:10	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-005	S	PH05D	10/18/19 18:20	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-005	S	PH05D	10/18/19 18:20	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-005	S	PH05D	10/18/19 18:20	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-006	S	PH05E	10/18/19 18:25	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-006	S	PH05E	10/18/19 18:25	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-006	S	PH05E	10/18/19 18:25	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-007	S	PH05F	10/18/19 18:35	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-007	S	PH05F	10/18/19 18:35	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-007	S	PH05F	10/18/19 18:35	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-008	S	PH05G	10/18/19 18:45	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-008	S	PH05G	10/18/19 18:45	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-008	S	PH05G	10/18/19 18:45	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-009	S	PH05H	10/18/19 18:50	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment

IOS Number **50598**

Date/Time: 10/22/19 12:43
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776785946410

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
640659-009	S	PH05H	10/18/19 18:50	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-009	S	PH05H	10/18/19 18:50	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-010	S	PH05I	10/18/19 18:55	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-010	S	PH05I	10/18/19 18:55	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-010	S	PH05I	10/18/19 18:55	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-011	S	PH05J	10/18/19 19:00	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-011	S	PH05J	10/18/19 19:00	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-011	S	PH05J	10/18/19 19:00	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-012	S	PH05K	10/18/19 19:10	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640659-012	S	PH05K	10/18/19 19:10	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-012	S	PH05K	10/18/19 19:10	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-013	S	PH05L	10/18/19 19:20	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640659-013	S	PH05L	10/18/19 19:20	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640659-013	S	PH05L	10/18/19 19:20	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 10/22/2019

Received By: Brianna Teel

Date Received: 10/23/2019 11:02

Cooler Temperature: 0.3

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 50598

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 10/22/2019 12:43 PM

Received By: Brianna Teel **Date Received:** 10/23/2019 11:02 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.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: 10/23/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/22/2019 10:50:00 AM

Work Order #: 640659

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?	**Yes**	
#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 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: 10/22/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

Analytical Report 640665

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal #1

2RP-3260

30-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)

Released to Imaging: 9/21/2022 2:36:52 PM

30-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640665**
Indian Flats Bass Federal #1
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) 640665. 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. 640665 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640665

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH04N	S	10-18-19 11:00	16 ft	640665-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal #1

Project ID: *2RP-3260*
Work Order Number(s): *640665*

Report Date: *30-OCT-19*
Date Received: *10/22/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105186 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 640665

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #1

Project Id: 2RP-3260
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 30-OCT-19
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	640665-001					
	Field Id:	PH04N					
	Depth:	16- ft					
	Matrix:	SOIL					
	Sampled:	Oct-18-19 11:00					
BTEX by EPA 8021B	***Extracted:***	Oct-22-19 18:10					
	Analyzed:	Oct-23-19 06:28					
	Units/RL:	mg/kg RL					
Benzene		<0.000992 0.000992					
Toluene		<0.000992 0.000992					
Ethylbenzene		<0.000992 0.000992					
m,p-Xylenes		<0.00198 0.00198					
o-Xylene		<0.000992 0.000992					
Total Xylenes		<0.000992 0.000992					
Total BTEX		<0.000992 0.000992					
Chloride by EPA 300	***Extracted:***	Oct-22-19 16:10					
	Analyzed:	Oct-22-19 18:37					
	Units/RL:	mg/kg RL					
Chloride		696 49.8					
TPH by SW8015 Mod	***Extracted:***	Oct-22-19 14:10					
	Analyzed:	Oct-22-19 23:02					
	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 Assistant

Final 1.000

Certificate of Analytical Results 640665

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04N**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640665-001	Date Collected:	10.18.19 11.00	Sample Depth:	16 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 16.10	Basis:	Wet Weight
Seq Number:	3105173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**696**	49.8	mg/kg	10.22.19 18.37		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.22.19 14.10	Basis:	Wet Weight
Seq Number:	3105101				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.22.19 23.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.22.19 23.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.22.19 23.02	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.22.19 23.02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.22.19 23.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	10.22.19 23.02	
o-Terphenyl	84-15-1	89	%	70-135	10.22.19 23.02	

Certificate of Analytical Results 640665

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #1

Sample Id:	**PH04N**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640665-001	Date Collected:	10.18.19 11.00	Sample Depth:	16 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.22.19 18.10	Basis:	Wet Weight
Seq Number:	3105186				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000992	0.000992	mg/kg	10.23.19 06.28	U	1
Toluene	108-88-3	<0.000992	0.000992	mg/kg	10.23.19 06.28	U	1
Ethylbenzene	100-41-4	<0.000992	0.000992	mg/kg	10.23.19 06.28	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	10.23.19 06.28	U	1
o-Xylene	95-47-6	<0.000992	0.000992	mg/kg	10.23.19 06.28	U	1
Total Xylenes	1330-20-7	<0.000992	0.000992	mg/kg	10.23.19 06.28	U	1
Total BTEX		<0.000992	0.000992	mg/kg	10.23.19 06.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.23.19 06.28	
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.23.19 06.28	

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: 9/21/2022 2:36:52 PM

QC Summary 640665

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105173 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688678-1-BLK — LCS Sample Id: 7688678-1-BKS — LCSD Sample Id: 7688678-1-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	270	108	269	108	90-110	0	20	mg/kg	10.22.19 16:43	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105173 — Matrix: Solid — Date Prep: 10.22.19
Parent Sample Id: 640664-001 — MS Sample Id: 640664-001 S — MSD Sample Id: 640664-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	24.5	199	247	112	246	111	90-110	0	20	mg/kg	10.22.19 17:03	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105173 — Matrix: Solid — Date Prep: 10.22.19
Parent Sample Id: 640666-001 — MS Sample Id: 640666-001 S — MSD Sample Id: 640666-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1210	996	2490	129	2520	131	90-110	1	20	mg/kg	10.22.19 18:49	X

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105101 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688651-1-BLK — LCS Sample Id: 7688651-1-BKS — LCSD Sample Id: 7688651-1-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	889	89	875	88	70-135	2	35	mg/kg	10.22.19 22:02	
Diesel Range Organics (DRO)	<50.0	1000	826	83	807	81	70-135	2	35	mg/kg	10.22.19 22:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		93		92		70-135	%	10.22.19 22:02
o-Terphenyl	78		88		87		70-135	%	10.22.19 22:02

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105101 — Matrix: Solid — Date Prep: 10.22.19
MB Sample Id: 7688651-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.22.19 22:02	

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 640665

LT Environmental, Inc.

Indian Flats Bass Federal #1

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3105101 | Matrix: Soil | Date Prep: 10.22.19
Parent Sample Id: 640662-011 | MS Sample Id: 640662-011 S | MSD Sample Id: 640662-011 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	832	83	790	79	70-135	5	35	mg/kg	10.22.19 22:42	
Diesel Range Organics (DRO)	18.0	1000	726	71	713	70	70-135	2	35	mg/kg	10.22.19 22:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		99		70-135	%	10.22.19 22:42
o-Terphenyl	97		96		70-135	%	10.22.19 22:42

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3105186 | Matrix: Solid | Date Prep: 10.22.19
MB Sample Id: 7688754-1-BLK | LCS Sample Id: 7688754-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.104	104	70-130	mg/kg	10.23.19 04:32	
Toluene	0.00140	0.100	0.0999	100	70-130	mg/kg	10.23.19 04:32	
Ethylbenzene	<0.00100	0.100	0.102	102	71-129	mg/kg	10.23.19 04:32	
m,p-Xylenes	<0.00200	0.200	0.203	102	70-135	mg/kg	10.23.19 04:32	
o-Xylene	<0.00100	0.100	0.103	103	71-133	mg/kg	10.23.19 04:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		104		70-130	%	10.23.19 04:32
4-Bromofluorobenzene	106		107		70-130	%	10.23.19 04:32

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3105186 | Matrix: Soil | Date Prep: 10.22.19
Parent Sample Id: 640665-001 | MS Sample Id: 640665-001 S | MSD Sample Id: 640665-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000992	0.0992	0.0869	88	0.0797	80	70-130	9	35	mg/kg	10.23.19 05:12	
Toluene	<0.000992	0.0992	0.0827	83	0.0763	77	70-130	8	35	mg/kg	10.23.19 05:12	
Ethylbenzene	<0.000992	0.0992	0.0837	84	0.0778	78	71-129	7	35	mg/kg	10.23.19 05:12	
m,p-Xylenes	<0.00198	0.198	0.166	84	0.155	78	70-135	7	35	mg/kg	10.23.19 05:12	
o-Xylene	<0.000992	0.0992	0.0853	86	0.0788	79	71-133	8	35	mg/kg	10.23.19 05:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	10.23.19 05:12
4-Bromofluorobenzene	110		108		70-130	%	10.23.19 05:12

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 650 of 744

Chain of Custody

Work Order No: 1640165

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

roject 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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #1	Turn Around	
Project Number:	2RP-3260	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	1.0	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 0=8021)	Chloride (EPA 300.0)
PH04N	S	10/18/2019	1100	16	1	X	X	X

ANALYSIS REQUEST

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

tice: 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 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 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
Spencer Lo	Anna Byers	10/22/19 1010	2 Anna Byers	Courtney	10/22/19 10:50
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 11 of 12
Released to Imaging: 9/21/2022 2:36:52 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/22/2019 10:50:00 AM

Work Order #: 640665

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?	**Yes**
#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: 10/22/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

Analytical Report 655240

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal (3260)

012917061

13-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: 9/21/2022 2:36:52 PM

13-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **655240**
Indian Flats Bass Federal (3260)
Project Address: Eddy

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) 655240. 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. 655240 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: 9/21/2022 2:36:52 PM

Sample Cross Reference 655240

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3260)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	03-10-20 13:27	1 - 4 ft	655240-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal (3260)

Project ID: *012917061*
Work Order Number(s): *655240*

Report Date: *13-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 655240

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal (3260)

Project Id: 012917061
Contact: Dan Moir
Project Location: Eddy

Date Received in Lab: Tue Mar-10-20 04:40 pm
Report Date: 13-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	655240-001					
	Field Id:	SW01					
	Depth:	1-4 ft					
	Matrix:	SOIL					
	Sampled:	Mar-10-20 13:27					
BTEX by EPA 8021B	***Extracted:***	Mar-10-20 17:30					
	Analyzed:	Mar-11-20 07:00					
	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-10-20 18:00					
	Analyzed:	Mar-10-20 22:30					
	Units/RL:	mg/kg RL					
Chloride		521 9.88					
TPH by SW8015 Mod	***Extracted:***	Mar-10-20 17:10					
	Analyzed:	Mar-11-20 05:13					
	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 Manager

Final 1.000

Certificate of Analytical Results 655240

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3260)

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655240-001	Date Collected:	03.10.20 13.27	Sample Depth:	1 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 18.00	Basis:	Wet Weight
Seq Number:	3119173				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**521**	9.88	mg/kg	03.10.20 22.30		1

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	<50.2	50.2	mg/kg	03.11.20 05.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	03.11.20 05.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	03.11.20 05.13	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	03.11.20 05.13	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	03.11.20 05.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	03.11.20 05.13	
o-Terphenyl	84-15-1	120	%	70-135	03.11.20 05.13	

Certificate of Analytical Results 655240

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal (3260)

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	03.10.20 16.40
Lab Sample Id:	655240-001	Date Collected:	03.10.20 13.27	Sample Depth:	1 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 17.30	Basis:	Wet Weight
Seq Number:	3119169				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.11.20 07.00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.11.20 07.00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.11.20 07.00	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.11.20 07.00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.11.20 07.00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.11.20 07.00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.11.20 07.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.11.20 07.00	
1,4-Difluorobenzene	540-36-3	108	%	70-130	03.11.20 07.00	

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: 9/21/2022 2:36:52 PM

QC Summary 655240

LT Environmental, Inc.

Indian Flats Bass Federal (3260)

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3119173 Matrix: Solid Date Prep: 03.10.20
MB Sample Id: 7698539-1-BLK LCS Sample Id: 7698539-1-BKS LCSD Sample Id: 7698539-1-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	259	104	90-110	0	20	mg/kg	03.10.20 20:59	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3119173 Matrix: Soil Date Prep: 03.10.20
Parent Sample Id: 655239-001 MS Sample Id: 655239-001 S MSD Sample Id: 655239-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	200	529	107	536	112	90-110	1	20	mg/kg	03.10.20 21:19	X

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 655240

LT Environmental, Inc.

Indian Flats Bass Federal (3260)

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
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

Page 662 of 744

Chain of Custody

Work Order No: W55240

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:	
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:	Indian Flats Bass Federal (3260)	Turn Around	
Project Number:	12917061	Routine	☑
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	2.2	Thermometer ID		
Received Intact:	Yes No	T-NM-004		
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)	Sample Comments
SW01	s	3/10/2020	13:27	1-4'	1	x	x	x	Composte, SW-Pasture

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			3/10/20 12:40	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 11 of 12
Released to Imaging: 9/21/2022 2:36:52 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.10.2020 04.40.00 PM

Work Order #: 655240

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?	**Yes**
#5 Custody Seals intact on sample bottles?	**No**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**No**
#8 Any missing/extra samples?	**Yes**
#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: Martha Castro Date: 03.10.2020

Checklist reviewed by: Date: 03.10.2020

ANALYTICAL REPORT

February 05, 2018

XTO Energy- Delaware Division

Sample Delivery Group:	L965932
Samples Received:	01/26/2018
Project Number:	30-015-22229
Description:	Soil Samples
Site:	INDIAN FLATS BASS FEDERAL #4
Report To:	Kyle Littrell 6401 N Holiday Hill Rd Suite 200 Midland, TX 79707

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Released to Imaging: 9/21/2022 2:36:52 PM

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

SS1 L965932-01 5

SS2 L965932-02 6

SS3 L965932-03 7

SS4 L965932-04 8

SS5 L965932-05 9

Qc: Quality Control Summary 10

Total Solids by Method 2540 G-2011 10

Wet Chemistry by Method 300.0 11

Volatile Organic Compounds (GC) by Method 8015/8021 13

Semi-Volatile Organic Compounds (GC) by Method 8015 16

Gl: Glossary of Terms 17

Al: Accreditations & Locations 18

Sc: Sample Chain of Custody 19

SS1 L965932-01 Solid

Collected by: Aaron Williamson | Collected date/time: 01/25/18 08:11 | Received date/time: 01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068399	1	01/31/18 14:04	01/31/18 14:19	JD
Wet Chemistry by Method 300.0	WG1067124	1	01/27/18 09:38	01/27/18 18:14	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067610	1	01/27/18 09:07	01/29/18 20:43	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067468	40	01/30/18 20:55	01/31/18 18:14	MTJ

SS2 L965932-02 Solid

Collected by: Aaron Williamson | Collected date/time: 01/25/18 08:13 | Received date/time: 01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068399	1	01/31/18 14:04	01/31/18 14:19	JD
Wet Chemistry by Method 300.0	WG1067178	20	01/27/18 12:48	01/27/18 17:40	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067728	1	01/27/18 09:07	01/30/18 02:34	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067468	1	01/30/18 20:55	01/31/18 17:17	MTJ

SS3 L965932-03 Solid

Collected by: Aaron Williamson | Collected date/time: 01/25/18 08:15 | Received date/time: 01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068399	1	01/31/18 14:04	01/31/18 14:19	JD
Wet Chemistry by Method 300.0	WG1067178	1	01/27/18 12:48	01/27/18 17:57	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067728	1	01/27/18 09:07	01/30/18 00:26	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067468	1	01/30/18 20:55	01/31/18 17:30	MTJ

SS4 L965932-04 Solid

Collected by: Aaron Williamson | Collected date/time: 01/25/18 08:17 | Received date/time: 01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068399	1	01/31/18 14:04	01/31/18 14:19	JD
Wet Chemistry by Method 300.0	WG1067178	1	01/27/18 12:48	01/27/18 18:23	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067728	1	01/27/18 09:07	01/30/18 00:47	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067468	20	01/30/18 20:55	01/31/18 18:00	MTJ

SS5 L965932-05 Solid

Collected by: Aaron Williamson | Collected date/time: 01/25/18 08:19 | Received date/time: 01/26/18 13:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1068399	1	01/31/18 14:04	01/31/18 14:19	JD
Wet Chemistry by Method 300.0	WG1067178	1	01/27/18 12:48	01/27/18 18:50	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG1067728	1	01/27/18 09:07	01/30/18 01:09	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1067468	10	01/30/18 20:55	01/31/18 17:47	MTJ

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne R Richards

Daphne Richards
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	01/31/2018 14:19	WG1068399

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	161		11.1	1	01/27/2018 18:14	WG1067124

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000555	1	01/29/2018 20:43	WG1067610
Toluene	ND		0.00555	1	01/29/2018 20:43	WG1067610
Ethylbenzene	ND		0.000555	1	01/29/2018 20:43	WG1067610
Total Xylene	ND		0.00167	1	01/29/2018 20:43	WG1067610
TPH (GC/FID) Low Fraction	ND		0.111	1	01/29/2018 20:43	WG1067610
(S) a,a,a-Trifluorotoluene(FID)	*98.5*		*77.0-120*		*01/29/2018 20:43*	WG1067610
(S) a,a,a-Trifluorotoluene(PID)	*103*		*75.0-128*		*01/29/2018 20:43*	WG1067610

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	2460		178	40	01/31/2018 18:14	WG1067468
C28-C40 Oil Range	1870		178	40	01/31/2018 18:14	WG1067468
(S) o-Terphenyl	*0.000*	J7	*18.0-148*		*01/31/2018 18:14*	WG1067468

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	01/31/2018 14:19	WG1068399

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	7980		216	20	01/27/2018 17:40	WG1067178

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000541	1	01/30/2018 02:34	WG1067728
Toluene	ND		0.00541	1	01/30/2018 02:34	WG1067728
Ethylbenzene	ND		0.000541	1	01/30/2018 02:34	WG1067728
Total Xylene	ND	J6	0.00162	1	01/30/2018 02:34	WG1067728
TPH (GC/FID) Low Fraction	ND		0.108	1	01/30/2018 02:34	WG1067728
(S) a,a,a-Trifluorotoluene(FID)	*100*		*77.0-120*		*01/30/2018 02:34*	WG1067728
(S) a,a,a-Trifluorotoluene(PID)	*101*		*75.0-128*		*01/30/2018 02:34*	WG1067728

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	17.1		4.33	1	01/31/2018 17:17	WG1067468
C28-C40 Oil Range	18.4		4.33	1	01/31/2018 17:17	WG1067468
(S) o-Terphenyl	*50.8*		*18.0-148*		*01/31/2018 17:17*	WG1067468

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	01/31/2018 14:19	WG1068399

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	80.7		11.1	1	01/27/2018 17:57	WG1067178

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000553	1	01/30/2018 00:26	WG1067728
Toluene	ND		0.00553	1	01/30/2018 00:26	WG1067728
Ethylbenzene	ND		0.000553	1	01/30/2018 00:26	WG1067728
Total Xylene	ND		0.00166	1	01/30/2018 00:26	WG1067728
TPH (GC/FID) Low Fraction	ND		0.111	1	01/30/2018 00:26	WG1067728
(S) a,a,a-Trifluorotoluene(FID)	*100*		*77.0-120*		*01/30/2018 00:26*	WG1067728
(S) a,a,a-Trifluorotoluene(PID)	*101*		*75.0-128*		*01/30/2018 00:26*	WG1067728

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	8.75		4.42	1	01/31/2018 17:30	WG1067468
C28-C40 Oil Range	17.5		4.42	1	01/31/2018 17:30	WG1067468
(S) o-Terphenyl	*66.0*		*18.0-148*		*01/31/2018 17:30*	WG1067468

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	01/31/2018 14:19	WG1068399

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	122		10.3	1	01/27/2018 18:23	WG1067178

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000514	1	01/30/2018 00:47	WG1067728
Toluene	ND		0.00514	1	01/30/2018 00:47	WG1067728
Ethylbenzene	ND		0.000514	1	01/30/2018 00:47	WG1067728
Total Xylene	ND		0.00154	1	01/30/2018 00:47	WG1067728
TPH (GC/FID) Low Fraction	ND		0.103	1	01/30/2018 00:47	WG1067728
(S) a,a,a-Trifluorotoluene(FID)	*103*		*77.0-120*		*01/30/2018 00:47*	WG1067728
(S) a,a,a-Trifluorotoluene(PID)	*100*		*75.0-128*		*01/30/2018 00:47*	WG1067728

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	88.6		82.3	20	01/31/2018 18:00	WG1067468
C28-C40 Oil Range	273		82.3	20	01/31/2018 18:00	WG1067468
(S) o-Terphenyl	*87.2*	J7	*18.0-148*		*01/31/2018 18:00*	WG1067468

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	01/31/2018 14:19	WG1068399

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	789		10.5	1	01/27/2018 18:50	WG1067178

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000524	1	01/30/2018 01:09	WG1067728
Toluene	ND		0.00524	1	01/30/2018 01:09	WG1067728
Ethylbenzene	ND		0.000524	1	01/30/2018 01:09	WG1067728
Total Xylene	ND		0.00157	1	01/30/2018 01:09	WG1067728
TPH (GC/FID) Low Fraction	ND		0.105	1	01/30/2018 01:09	WG1067728
(S) a,a,a-Trifluorotoluene(FID)	*97.5*		*77.0-120*		*01/30/2018 01:09*	WG1067728
(S) a,a,a-Trifluorotoluene(PID)	*98.6*		*75.0-128*		*01/30/2018 01:09*	WG1067728

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	2050		41.9	10	01/31/2018 17:47	WG1067468
C28-C40 Oil Range	1140		41.9	10	01/31/2018 17:47	WG1067468
(S) o-Terphenyl	*194*	J1	*18.0-148*		*01/31/2018 17:47*	WG1067468

Received by OCD: 5/13/2020 2:22:43 PM

QUALITY CONTROL SUMMARY

L965932-01,02,03,04,05

Method Blank (MB)

(MB) R3283253-1 01/31/18 14:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0			

L965933-05 Original Sample (OS) • Duplicate (DUP)

(OS) L965933-05 01/31/18 14:19 • (DUP) R3283253-3 01/31/18 14:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.5	73.9	1	1		5

Laboratory Control Sample (LCS)

(LCS) R3283253-2 01/31/18 14:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85-115	

Released to Imaging: 9/21/2022 2:36:52 PM

Method Blank (MB)

(MB) R3282504-1 01/27/18 12:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L965908-03 Original Sample (OS) • Duplicate (DUP)

(OS) L965908-03 01/27/18 14:33 • (DUP) R3282504-4 01/27/18 14:41

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	73.3	75.9	1	3.47		20

L965913-07 Original Sample (OS) • Duplicate (DUP)

(OS) L965913-07 01/27/18 17:06 • (DUP) R3282504-7 01/27/18 17:14

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	33.6	33.1	1	1.45		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282504-2 01/27/18 12:40 • (LCSD) R3282504-3 01/27/18 12:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	208	209	104	105	90-110			0.462	20

L965908-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L965908-05 01/27/18 14:58 • (MS) R3282504-5 01/27/18 15:24 • (MSD) R3282504-6 01/27/18 15:32

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	855	1340	1370	97.5	103	1	80-120	E	E	2.21	20

Method Blank (MB)

(MB) R3282232-1 01/27/18 15:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.26	J	0.795	10.0

L965932-02 Original Sample (OS) • Duplicate (DUP)

(OS) L965932-02 01/27/18 17:40 • (DUP) R3282232-9 01/27/18 17:48

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7980	9150	20	14		20

L966021-06 Original Sample (OS) • Duplicate (DUP)

(OS) L966021-06 01/27/18 19:51 • (DUP) R3282232-12 01/27/18 20:00

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	33900	32100	100	5		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282232-4 01/27/18 15:53 • (LCSD) R3282232-8 01/27/18 16:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	185	185	92	93	90-110			0	20

L965932-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L965932-03 01/27/18 17:57 • (MS) R3282232-10 01/27/18 18:06 • (MSD) R3282232-11 01/27/18 18:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	553	80.7	582	568	91	88	1	80-120			2	20

Method Blank (MB)

(MB) R3282841-5 01/29/18 11:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000185	J	0.000150	0.00500
Ethylbenzene	0.000131	J	0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0233	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*111*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282841-1 01/29/18 10:00 • (LCSD) R3282841-2 01/29/18 10:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0565	0.0571	113	114	71.0-121			0.965	20
Toluene	0.0500	0.0522	0.0522	104	104	72.0-120			0.170	20
Ethylbenzene	0.0500	0.0498	0.0502	99.6	100	76.0-121			0.798	20
Total Xylene	0.150	0.140	0.141	93.5	93.9	75.0-124			0.356	20
(S) a,a,a-Trifluorotoluene(FID)				*106*	*106*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*109*	*109*	*75.0-128*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282841-3 01/29/18 10:47 • (LCSD) R3282841-4 01/29/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.69	5.69	103	103	70.0-136			0.0640	20
(S) a,a,a-Trifluorotoluene(FID)				*112*	*112*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*122*	*119*	*75.0-128*				

Method Blank (MB)

(MB) R3282947-5 01/29/18 20:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000377	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*102*			*75.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282947-1 01/29/18 18:57 • (LCSD) R3282947-2 01/29/18 19:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0467	0.0449	93.4	89.7	71.0-121			4.02	20
Toluene	0.0500	0.0468	0.0450	93.7	90.0	72.0-120			3.97	20
Ethylbenzene	0.0500	0.0506	0.0486	101	97.1	76.0-121			4.02	20
Total Xylene	0.150	0.164	0.158	109	105	75.0-124			3.60	20
(S) a,a,a-Trifluorotoluene(FID)				*97.0*	*100*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*101*	*102*	*75.0-128*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3282947-3 01/29/18 19:39 • (LCSD) R3282947-4 01/29/18 20:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.04	4.85	91.6	88.3	70.0-136			3.71	20
(S) a,a,a-Trifluorotoluene(FID)				*98.1*	*95.1*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*112*	*111*	*75.0-128*				

Received by OCD: 5/13/2020 2:22:43 PM

L965932-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L965932-02 01/30/18 02:34 • (MS) R3282947-6 01/30/18 02:56 • (MSD) R3282947-7 01/30/18 03:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0541	ND	0.0253	0.0228	46.8	42.1	1	10.0-146			10.4	29
Toluene	0.0541	ND	0.0257	0.0221	47.6	40.8	1	10.0-143			15.3	30
Ethylbenzene	0.0541	ND	0.0274	0.0221	50.6	40.8	1	10.0-147			21.4	31
Total Xylene	0.162	ND	0.0885	0.0710	54.5	43.7	1	10.0-149	J6	J6	22.0	30
(S) a,a,a-Trifluorotoluene(FID)					*99.8*	*104*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*101*	*101*		*75.0-128*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Released to Imaging: 9/21/2022 2:36:52 PM

Received by OCD: 5/13/2020 2:22:43 PM

Method Blank (MB)

(MB) R3283069-1 01/31/18 09:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*64.2*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3283069-2 01/31/18 09:55 • (LCSD) R3283069-3 01/31/18 10:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	32.0	31.8	53.3	53.0	50.0-150			0.611	20
(S) o-Terphenyl				*65.6*	*61.4*	*18.0-148*				

Released to Imaging: 9/21/2022 2:36:52 PM

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

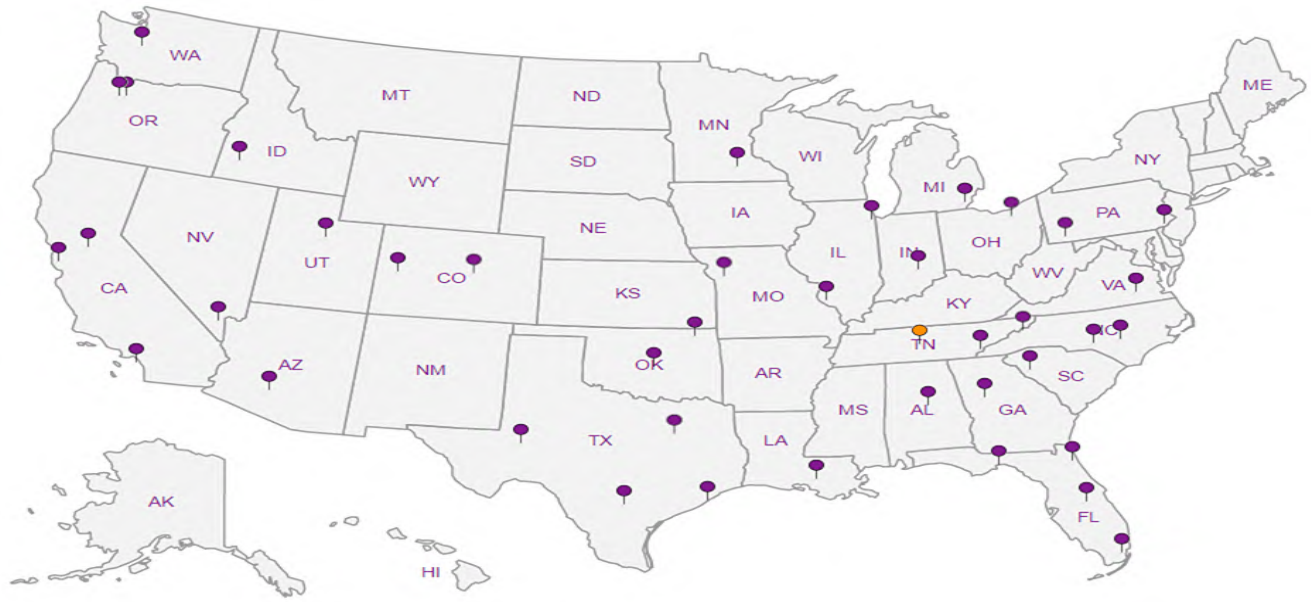
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody

Page 1 of 1

ESC LABORATORIES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 965932

G022

Acctnum: XTOMTX

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Report to: **Kyle Littrell**

Email To: **Abaker@ltenv.com**

Project Description: **Soil Samples**

City/State Collected: **NM**

Phone: **1-970-317-1867**

Fax:

Client Project # **30-015-22229**

Lab Project #

Collected by (print): **Aaron Williamson**

Site/Facility ID # **Indian Flats Bass Federal #4**

P.O. # **012918017**

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ~~X Five Day~~
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard turn

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX EPA Method 8021	TPH EPA Method 8015	Chloride EPA Method 300.1	Remarks	Sample # (lab only)
SS1	Grab	SS	0.5 feet	1/25/2018	08:11	1	X	X	X		-01
SS2	Grab	SS	0.5 feet	1/25/2018	08:13	1	X	X	X		-02
SS3	Grab	SS	0.5 feet	1/25/2018	08:15	1	X	X	X		-03
SS4	Grab	SS	0.5 feet	1/25/2018	08:17	1	X	X	X		-04
SS5	Grab	SS	0.5 feet	1/25/2018	08:19	1	X	X	X		-05
		NFE	ARW								

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Also Email to: Awilliamson@ltenv.com
All times recorded in Mountain Time
(2RP-3703)

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Samples returned via: ___ UPS ___ FedEx ___ Courier X SW

Tracking #

	Date:	Time:	
Relinquished by: (Signature)	1-25-18	3:55	Received by: (Signature)
Relinquished by: (Signature)			Received by: (Signature)
Relinquished by: (Signature)			Received for lab by: (Signature) Marina Hall

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 1.9°C Tall °C Bottles Received: 5

Date: 01-26-18 Time: 1345

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Analytical Report 640076

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats #4

16-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)

Released to Imaging: 9/21/2022 2:36:52 PM

16-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640076**
Indian Flats #4
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) 640076. 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. 640076 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	10-15-19 09:15	3 ft	640076-001
FS02	S	10-15-19 09:25	3 ft	640076-002
FS03	S	10-15-19 09:35	3 ft	640076-003
FS04	S	10-15-19 09:45	3 ft	640076-004
SW01	S	10-15-19 10:00	1 - 3 ft	640076-005
SW02	S	10-15-19 10:15	1 - 3 ft	640076-006
SW03	S	10-15-19 10:30	1 - 3 ft	640076-007
SW04	S	10-15-19 10:35	1 - 3 ft	640076-008

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats #4

Project ID:
Work Order Number(s): *640076*

Report Date: *16-OCT-19*
Date Received: *10/15/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3104436 BTEX by EPA 8021B

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 640076-001, -002, -003, -004, -005, -006, -007, -008

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 640076-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Benzene recovered below QC limits in the Matrix Spike. 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: 640076-001, -002, -003, -004, -005, -006, -007, -008.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 640076

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats #4

Project Id:
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-15-19 04:40 pm
Report Date: 16-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640076-001		640076-002		640076-003		640076-004		640076-005		640076-006	
	Field Id:	FS01		FS02		FS03		FS04		SW01		SW02	
	Depth:	3- ft		3- ft		3- ft		3- ft		1-3 ft		1-3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-15-19 09:15		Oct-15-19 09:25		Oct-15-19 09:35		Oct-15-19 09:45		Oct-15-19 10:00		Oct-15-19 10:15	
BTEX by EPA 8021B	***Extracted:***	** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **	
	Analyzed:	Oct-15-19 21:11		Oct-15-19 21:31		Oct-15-19 21:52		Oct-15-19 22:12		Oct-15-19 22:32		Oct-15-19 22:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101
Toluene		<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101
Ethylbenzene		<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101
m,p-Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
o-Xylene		<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101
Total Xylenes		<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101
Total BTEX		<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101
Chloride by EPA 300	***Extracted:***	Oct-15-19 17:10		Oct-15-19 17:10		Oct-15-19 17:10		Oct-15-19 17:10		Oct-15-19 17:10		Oct-15-19 17:10	
	Analyzed:	Oct-16-19 11:00		Oct-16-19 11:07		Oct-16-19 11:14		Oct-16-19 11:21		Oct-16-19 11:27		Oct-16-19 11:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5160	197	2270	98.8	1930	99.4	1830	101	2030	99.8	2900	100
TPH by SW8015 Mod	***Extracted:***	** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **	
	Analyzed:	Oct-15-19 23:40		Oct-16-19 00:20		Oct-16-19 00:40		Oct-16-19 10:51		Oct-16-19 01:19		Oct-16-19 01:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.2	50.2	<50.3	50.3
Diesel Range Organics (DRO)		152	50.1	181	50.2	105	50.2	349	50.1	141	50.2	243	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.2	50.2	<50.2	50.2	70.5	50.1	<50.2	50.2	65.0	50.3
Total GRO-DRO		152	50.1	181	50.2	105	50.2	349	50.1	141	50.2	243	50.3
Total TPH		152	50.1	181	50.2	105	50.2	420	50.1	141	50.2	308	50.3

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 Analysis Summary 640076

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats #4

Project Id:
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-15-19 04:40 pm
Report Date: 16-OCT-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	640076-007		640076-008					
	Field Id:	SW03		SW04					
	Depth:	1-3 ft		1-3 ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Oct-15-19 10:30		Oct-15-19 10:35					
BTEX by EPA 8021B	***Extracted:***	** ** ** **		** ** ** **					
	Analyzed:	Oct-15-19 23:13		Oct-15-19 23:34					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00101	0.00101	<0.00101	0.00101				
Toluene		<0.00101	0.00101	<0.00101	0.00101				
Ethylbenzene		<0.00101	0.00101	<0.00101	0.00101				
m,p-Xylenes		<0.00202	0.00202	<0.00202	0.00202				
o-Xylene		<0.00101	0.00101	<0.00101	0.00101				
Total Xylenes		<0.00101	0.00101	<0.00101	0.00101				
Total BTEX		<0.00101	0.00101	<0.00101	0.00101				
Chloride by EPA 300	***Extracted:***	Oct-15-19 17:10		Oct-15-19 17:10					
	Analyzed:	Oct-16-19 11:41		Oct-16-19 11:48					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		2320	99.2	533	49.2				
TPH by SW8015 Mod	***Extracted:***	** ** ** **		** ** ** **					
	Analyzed:	Oct-16-19 01:59		Oct-16-19 02:19					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.2	50.2				
Diesel Range Organics (DRO)		123	50.3	211	50.2				
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.2	50.2				
Total GRO-DRO		123	50.3	211	50.2				
Total TPH		123	50.3	211	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.

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-001	Date Collected:	10.15.19 09.15	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5160**	197	mg/kg	10.16.19 11.00		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.15.19 23.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	**152**	50.1	mg/kg	10.15.19 23.40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.15.19 23.40	U	1
Total GRO-DRO	PHC628	**152**	50.1	mg/kg	10.15.19 23.40		1
Total TPH	PHC635	**152**	50.1	mg/kg	10.15.19 23.40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.15.19 23.40	
o-Terphenyl	84-15-1	92	%	70-135	10.15.19 23.40	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-001	Date Collected:	10.15.19 09.15	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	10.15.19 21.11	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	10.15.19 21.11	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	10.15.19 21.11	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	10.15.19 21.11	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	10.15.19 21.11	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	10.15.19 21.11	U	1
Total BTEX		<0.00100	0.00100	mg/kg	10.15.19 21.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.15.19 21.11	
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.15.19 21.11	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-002	Date Collected:	10.15.19 09.25	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2270**	98.8	mg/kg	10.16.19 11.07		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.16.19 00.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	**181**	50.2	mg/kg	10.16.19 00.20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.16.19 00.20	U	1
Total GRO-DRO	PHC628	**181**	50.2	mg/kg	10.16.19 00.20		1
Total TPH	PHC635	**181**	50.2	mg/kg	10.16.19 00.20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.16.19 00.20	
o-Terphenyl	84-15-1	98	%	70-135	10.16.19 00.20	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-002	Date Collected:	10.15.19 09.25	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	10.15.19 21.31	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	10.15.19 21.31	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	10.15.19 21.31	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	10.15.19 21.31	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	10.15.19 21.31	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	10.15.19 21.31	U	1
Total BTEX		<0.000994	0.000994	mg/kg	10.15.19 21.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.15.19 21.31	
1,4-Difluorobenzene	540-36-3	108	%	70-130	10.15.19 21.31	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-003	Date Collected:	10.15.19 09.35	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1930**	99.4	mg/kg	10.16.19 11.14		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.16.19 00.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	**105**	50.2	mg/kg	10.16.19 00.40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.16.19 00.40	U	1
Total GRO-DRO	PHC628	**105**	50.2	mg/kg	10.16.19 00.40		1
Total TPH	PHC635	**105**	50.2	mg/kg	10.16.19 00.40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.16.19 00.40	
o-Terphenyl	84-15-1	100	%	70-135	10.16.19 00.40	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-003	Date Collected:	10.15.19 09.35	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	10.15.19 21.52	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	10.15.19 21.52	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	10.15.19 21.52	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	10.15.19 21.52	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	10.15.19 21.52	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	10.15.19 21.52	U	1
Total BTEX		<0.000990	0.000990	mg/kg	10.15.19 21.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.15.19 21.52	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.15.19 21.52	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-004	Date Collected:	10.15.19 09.45	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1830**	101	mg/kg	10.16.19 11.21		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.16.19 10.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	**349**	50.1	mg/kg	10.16.19 10.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**70.5**	50.1	mg/kg	10.16.19 10.51		1
Total GRO-DRO	PHC628	**349**	50.1	mg/kg	10.16.19 10.51		1
Total TPH	PHC635	**420**	50.1	mg/kg	10.16.19 10.51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.16.19 10.51	
o-Terphenyl	84-15-1	98	%	70-135	10.16.19 10.51	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-004	Date Collected:	10.15.19 09.45	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	10.15.19 22.12	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	10.15.19 22.12	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	10.15.19 22.12	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	10.15.19 22.12	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	10.15.19 22.12	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	10.15.19 22.12	U	1
Total BTEX		<0.00100	0.00100	mg/kg	10.15.19 22.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.15.19 22.12	
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.15.19 22.12	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-005	Date Collected:	10.15.19 10.00	Sample Depth:	1 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2030**	99.8	mg/kg	10.16.19 11.27		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.16.19 01.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	**141**	50.2	mg/kg	10.16.19 01.19		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.16.19 01.19	U	1
Total GRO-DRO	PHC628	**141**	50.2	mg/kg	10.16.19 01.19		1
Total TPH	PHC635	**141**	50.2	mg/kg	10.16.19 01.19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.16.19 01.19	
o-Terphenyl	84-15-1	131	%	70-135	10.16.19 01.19	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-005	Date Collected:	10.15.19 10.00	Sample Depth:	1 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	10.15.19 22.32	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	10.15.19 22.32	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	10.15.19 22.32	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	10.15.19 22.32	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	10.15.19 22.32	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	10.15.19 22.32	U	1
Total BTEX		<0.00100	0.00100	mg/kg	10.15.19 22.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.15.19 22.32	
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.15.19 22.32	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-006	Date Collected:	10.15.19 10.15	Sample Depth:	1 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2900**	100	mg/kg	10.16.19 11.34		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.16.19 01.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	**243**	50.3	mg/kg	10.16.19 01.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**65.0**	50.3	mg/kg	10.16.19 01.39		1
Total GRO-DRO	PHC628	**243**	50.3	mg/kg	10.16.19 01.39		1
Total TPH	PHC635	**308**	50.3	mg/kg	10.16.19 01.39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.16.19 01.39	
o-Terphenyl	84-15-1	113	%	70-135	10.16.19 01.39	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-006	Date Collected:	10.15.19 10.15	Sample Depth:	1 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.15.19 22.53	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.15.19 22.53	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.15.19 22.53	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.15.19 22.53	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.15.19 22.53	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.15.19 22.53	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.15.19 22.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.15.19 22.53	
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.15.19 22.53	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-007	Date Collected:	10.15.19 10.30	Sample Depth:	1 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2320**	99.2	mg/kg	10.16.19 11.41		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.16.19 01.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	**123**	50.3	mg/kg	10.16.19 01.59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.16.19 01.59	U	1
Total GRO-DRO	PHC628	**123**	50.3	mg/kg	10.16.19 01.59		1
Total TPH	PHC635	**123**	50.3	mg/kg	10.16.19 01.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.16.19 01.59	
o-Terphenyl	84-15-1	112	%	70-135	10.16.19 01.59	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-007	Date Collected:	10.15.19 10.30	Sample Depth:	1 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.15.19 23.13	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.15.19 23.13	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.15.19 23.13	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.15.19 23.13	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.15.19 23.13	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.15.19 23.13	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.15.19 23.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.15.19 23.13	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.15.19 23.13	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-008	Date Collected:	10.15.19 10.35	Sample Depth:	1 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 17.10	Basis:	Wet Weight
Seq Number:	3104489				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**533**	49.2	mg/kg	10.16.19 11.48		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	10.15.19 15.30	Basis:	Wet Weight
Seq Number:	3104456				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.16.19 02.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	**211**	50.2	mg/kg	10.16.19 02.19		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.16.19 02.19	U	1
Total GRO-DRO	PHC628	**211**	50.2	mg/kg	10.16.19 02.19		1
Total TPH	PHC635	**211**	50.2	mg/kg	10.16.19 02.19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.16.19 02.19	
o-Terphenyl	84-15-1	115	%	70-135	10.16.19 02.19	

Certificate of Analytical Results 640076

LT Environmental, Inc., Arvada, CO

Indian Flats #4

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	10.15.19 16.40
Lab Sample Id:	640076-008	Date Collected:	10.15.19 10.35	Sample Depth:	1 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	10.15.19 16.10	Basis:	Wet Weight
Seq Number:	3104436				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	10.15.19 23.34	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	10.15.19 23.34	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	10.15.19 23.34	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	10.15.19 23.34	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	10.15.19 23.34	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	10.15.19 23.34	U	1
Total BTEX		<0.00101	0.00101	mg/kg	10.15.19 23.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.15.19 23.34	
1,4-Difluorobenzene	540-36-3	113	%	70-130	10.15.19 23.34	

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: 9/21/2022 2:36:52 PM

QC Summary 640076

LT Environmental, Inc.

Indian Flats #4

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104489 — Matrix: Solid — Date Prep: 10.15.19
MB Sample Id: 7688190-1-BLK — LCS Sample Id: 7688190-1-BKS — LCSD Sample Id: 7688190-1-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	261	104	262	105	90-110	0	20	mg/kg	10.16.19 10:47	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104489 — Matrix: Soil — Date Prep: 10.15.19
Parent Sample Id: 640055-019 — MS Sample Id: 640055-019 S — MSD Sample Id: 640055-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	306	990	1260	96	1290	99	90-110	2	20	mg/kg	10.16.19 12:15	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104489 — Matrix: Solid — Date Prep: 10.15.19
Parent Sample Id: 640055-030 — MS Sample Id: 640055-030 S — MSD Sample Id: 640055-030 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.6	198	223	107	225	107	90-110	1	20	mg/kg	10.16.19 13:56	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104456 — Matrix: Solid — Date Prep: 10.15.19
MB Sample Id: 7688185-1-BLK — LCS Sample Id: 7688185-1-BKS — LCSD Sample Id: 7688185-1-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	1020	102	1040	104	70-135	2	35	mg/kg	10.15.19 19:02	
Diesel Range Organics (DRO)	<50.0	1000	862	86	874	87	70-135	1	35	mg/kg	10.15.19 19:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		112		128		70-135	%	10.15.19 19:02
o-Terphenyl	112		98		99		70-135	%	10.15.19 19:02

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3104456 — Matrix: Solid — Date Prep: 10.15.19
MB Sample Id: 7688185-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.15.19 18:41	

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 640076

LT Environmental, Inc.

Indian Flats #4

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3104456 | Matrix: Soil | Date Prep: 10.15.19
Parent Sample Id: 639787-008 | MS Sample Id: 639787-008 S | MSD Sample Id: 639787-008 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	971	97	952	95	70-135	2	35	mg/kg	10.15.19 20:22	
Diesel Range Organics (DRO)	<50.1	1000	947	95	804	80	70-135	16	35	mg/kg	10.15.19 20:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		108		70-135	%	10.15.19 20:22
o-Terphenyl	122		96		70-135	%	10.15.19 20:22

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3104436 | Matrix: Solid | Date Prep: 10.15.19
MB Sample Id: 7688230-1-BLK | LCS Sample Id: 7688230-1-BKS | LCSD Sample Id: 7688230-1-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	0.100	100	0.101	101	70-130	1	35	mg/kg	10.15.19 19:15	
Toluene	<0.00100	0.100	0.0982	98	0.0986	99	70-130	0	35	mg/kg	10.15.19 19:15	
Ethylbenzene	<0.00100	0.100	0.103	103	0.103	103	71-129	0	35	mg/kg	10.15.19 19:15	
m,p-Xylenes	<0.00200	0.200	0.207	104	0.208	104	70-135	0	35	mg/kg	10.15.19 19:15	
o-Xylene	<0.00100	0.100	0.102	102	0.103	103	71-133	1	35	mg/kg	10.15.19 19:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		102		70-130	%	10.15.19 19:15
4-Bromofluorobenzene	102		102		104		70-130	%	10.15.19 19:15

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3104436 | Matrix: Soil | Date Prep: 10.15.19
Parent Sample Id: 640076-001 | MS Sample Id: 640076-001 S | MSD Sample Id: 640076-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000996	0.0996	0.0370	37	0.0790	78	70-130	72	35	mg/kg	10.15.19 19:56	XF
Toluene	<0.000996	0.0996	0.0209	21	0.0673	67	70-130	105	35	mg/kg	10.15.19 19:56	XF
Ethylbenzene	<0.000996	0.0996	0.0108	11	0.0554	55	71-129	135	35	mg/kg	10.15.19 19:56	XF
m,p-Xylenes	<0.00199	0.199	0.0204	10	0.109	54	70-135	137	35	mg/kg	10.15.19 19:56	XF
o-Xylene	<0.000996	0.0996	0.0116	12	0.0565	56	71-133	132	35	mg/kg	10.15.19 19:56	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		105		70-130	%	10.15.19 19:56
4-Bromofluorobenzene	115		115		70-130	%	10.15.19 19:56

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

Page 708 of 744

Chain of Custody

Work Order No: 1040076

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian flats #4	Turn Around	
Project Number:	2RP-3703	Routine ☐	
P.O. Number:		Rush: 24H	
Sampler's Name:	Spencer Lo	Due Date:	

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:	8	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS01	S	10.15.19	915	3'	1	X	X	X
FS02	S	10.15.19	925	3'	1	X	X	X
FS03	S	10.15.19	935	3'	1	X	X	X
FS04	S	10.15.19	945	3'	1	X	X	X
SW01	S	10.15.19	1000	1-3'	1	X	X	X
SW02	S	10.15.19	1015	1-3'	1	X	X	X
SW03	S	10.15.19	1030	1-3'	1	X	X	X
SW04	S	10.15.19	1035	1-3'	1	X	X	X

ANALYSIS REQUEST

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
Spencer Lo		10/15/19 10:40	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 26 of 27
Released to Imaging: 9/21/2022 2:36:52 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/15/2019 04:40:00 PM

Work Order #: 640076

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: 10/15/2019

Checklist reviewed by: Jessica Kramer Date: 10/16/2019

Analytical Report 640657

for

LT Environmental, Inc.

Project Manager: Dan Moir

Indian Flats Bass Federal #4

2RP-3703

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)

Released to Imaging: 9/21/2022 2:36:52 PM

28-OCT-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **640657**
Indian Flats Bass Federal #4
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) 640657. 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. 640657 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

Released to Imaging: 9/21/2022 2:36:52 PM

Sample Cross Reference 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	10-18-19 13:40	1 ft	640657-001
PH01A	S	10-18-19 13:45	2 ft	640657-002
PH01B	S	10-18-19 13:50	3 ft	640657-003
PH01C	S	10-18-19 13:55	4 ft	640657-004
PH02	S	10-18-19 14:00	1 ft	640657-005
PH02A	S	10-18-19 14:10	2 ft	640657-006
PH02B	S	10-18-19 14:15	3 ft	640657-007
PH02C	S	10-18-19 14:20	4 ft	640657-008
BH01	S	10-18-19 12:35	1 ft	640657-009
BH02	S	10-18-19 12:40	1 ft	640657-010

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Indian Flats Bass Federal #4

Project ID: *2RP-3703*
Work Order Number(s): *640657*

Report Date: *28-OCT-19*
Date Received: *10/22/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3105497 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 640657

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 2RP-3703
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	640657-001		640657-002		640657-003		640657-004		640657-005		640657-006	
	Field Id:	PH01		PH01A		PH01B		PH01C		PH02		PH02A	
	Depth:	1- ft		2- ft		3- ft		4- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-18-19 13:40		Oct-18-19 13:45		Oct-18-19 13:50		Oct-18-19 13:55		Oct-18-19 14:00		Oct-18-19 14:10	
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30	
	Analyzed:	Oct-25-19 20:15		Oct-25-19 20:35		Oct-25-19 20:55		Oct-25-19 21:15		Oct-25-19 21:35		Oct-25-19 21:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00403	0.00403	<0.00398	0.00398	<0.00397	0.00397	<0.00398	0.00398	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00	
	Analyzed:	Oct-23-19 17:41		Oct-23-19 17:56		Oct-23-19 18:01		Oct-23-19 18:16		Oct-23-19 18:21		Oct-23-19 18:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		229	5.04	278	4.97	528	4.96	459	5.00	1310	5.01	2780	24.9
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00	
	Analyzed:	Oct-24-19 03:29		Oct-24-19 03:50		Oct-24-19 04:11		Oct-24-19 04:32		Oct-24-19 04:52		Oct-24-19 05:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		664	49.9	231	49.8	101	49.9	<50.0	50.0	503	50.0	388	49.9
Motor Oil Range Hydrocarbons (MRO)		193	49.9	69.9	49.8	<49.9	49.9	<50.0	50.0	150	50.0	110	49.9
Total GRO-DRO		664	49.9	231	49.8	101	49.9	<50.0	50.0	503	50.0	388	49.9
Total TPH		857	49.9	301	49.8	101	49.9	<50.0	50.0	653	50.0	498	49.9

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 Analysis Summary 640657

LT Environmental, Inc., Arvada, CO

Project Name: Indian Flats Bass Federal #4

Project Id: 2RP-3703
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Oct-22-19 10:50 am
Report Date: 28-OCT-19
Project Manager: Jessica Kramer

Analysis Requested															
	Lab Id:	640657-007		640657-008		640657-009		640657-010							
	Field Id:	PH02B		PH02C		BH01		BH02							
	Depth:	3- ft		4- ft		1- ft		1- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL							
	Sampled:	Oct-18-19 14:15		Oct-18-19 14:20		Oct-18-19 12:35		Oct-18-19 12:40							
BTEX by EPA 8021B SUB: T104704400-19-19	*Extracted:*	Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30		Oct-25-19 15:30							
	Analyzed:	Oct-25-19 22:15		Oct-25-19 22:35		Oct-25-19 22:55		Oct-25-19 23:15							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199						
Toluene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199						
Ethylbenzene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199						
m,p-Xylenes		<0.00402	0.00402	<0.00402	0.00402	<0.00401	0.00401	<0.00398	0.00398						
o-Xylene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199						
Total Xylenes		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199						
Total BTEX		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199						
Chloride by EPA 300 SUB: T104704400-19-19	*Extracted:*	Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00		Oct-23-19 13:00							
	Analyzed:	Oct-23-19 18:31		Oct-23-19 18:36		Oct-23-19 18:41		Oct-23-19 18:46							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		3120	25.1	2950	24.8	1160	25.0	406	5.05						
TPH by SW8015 Mod SUB: T104704400-19-19	*Extracted:*	Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00		Oct-23-19 14:00							
	Analyzed:	Oct-24-19 05:34		Oct-24-19 05:55		Oct-24-19 06:16		Oct-24-19 06:48							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0						
Diesel Range Organics (DRO)		618	49.8	1120	50.0	2380	50.0	1150	50.0						
Motor Oil Range Hydrocarbons (MRO)		152	49.8	199	50.0	570	50.0	461	50.0						
Total GRO-DRO		618	49.8	1120	50.0	2380	50.0	1150	50.0						
Total TPH		770	49.8	1320	50.0	2950	50.0	1610	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 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-001	Date Collected:	10.18.19 13.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**229**	5.04	mg/kg	10.23.19 17.41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 03.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	**664**	49.9	mg/kg	10.24.19 03.29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**193**	49.9	mg/kg	10.24.19 03.29		1
Total GRO-DRO	PHC628	**664**	49.9	mg/kg	10.24.19 03.29		1
Total TPH	PHC635	**857**	49.9	mg/kg	10.24.19 03.29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.24.19 03.29	
o-Terphenyl	84-15-1	95	%	70-135	10.24.19 03.29	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-001	Date Collected:	10.18.19 13.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.25.19 20.15	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.25.19 20.15	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.25.19 20.15	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.25.19 20.15	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.25.19 20.15	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.25.19 20.15	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.25.19 20.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	10.25.19 20.15	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.25.19 20.15	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-002	Date Collected:	10.18.19 13.45	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**278**	4.97	mg/kg	10.23.19 17.56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.24.19 03.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	**231**	49.8	mg/kg	10.24.19 03.50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**69.9**	49.8	mg/kg	10.24.19 03.50		1
Total GRO-DRO	PHC628	**231**	49.8	mg/kg	10.24.19 03.50		1
Total TPH	PHC635	**301**	49.8	mg/kg	10.24.19 03.50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	10.24.19 03.50	
o-Terphenyl	84-15-1	89	%	70-135	10.24.19 03.50	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-002	Date Collected:	10.18.19 13.45	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 20.35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 20.35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 20.35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 20.35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 20.35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 20.35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 20.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.25.19 20.35	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.25.19 20.35	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-003	Date Collected:	10.18.19 13.50	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**528**	4.96	mg/kg	10.23.19 18.01		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 04.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	**101**	49.9	mg/kg	10.24.19 04.11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.24.19 04.11	U	1
Total GRO-DRO	PHC628	**101**	49.9	mg/kg	10.24.19 04.11		1
Total TPH	PHC635	**101**	49.9	mg/kg	10.24.19 04.11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	10.24.19 04.11	
o-Terphenyl	84-15-1	93	%	70-135	10.24.19 04.11	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-003	Date Collected:	10.18.19 13.50	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.25.19 20.55	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.25.19 20.55	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.25.19 20.55	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.25.19 20.55	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.25.19 20.55	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.25.19 20.55	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.25.19 20.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	10.25.19 20.55	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.25.19 20.55	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-004	Date Collected:	10.18.19 13.55	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**459**	5.00	mg/kg	10.23.19 18.16		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 04.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.24.19 04.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.24.19 04.32	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.24.19 04.32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.24.19 04.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.24.19 04.32	
o-Terphenyl	84-15-1	106	%	70-135	10.24.19 04.32	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH01C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-004	Date Collected:	10.18.19 13.55	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 21.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 21.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 21.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 21.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 21.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 21.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 21.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.25.19 21.15	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.25.19 21.15	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-005	Date Collected:	10.18.19 14.00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1310**	5.01	mg/kg	10.23.19 18.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 04.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	**503**	50.0	mg/kg	10.24.19 04.52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**150**	50.0	mg/kg	10.24.19 04.52		1
Total GRO-DRO	PHC628	**503**	50.0	mg/kg	10.24.19 04.52		1
Total TPH	PHC635	**653**	50.0	mg/kg	10.24.19 04.52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	10.24.19 04.52	
o-Terphenyl	84-15-1	91	%	70-135	10.24.19 04.52	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-005	Date Collected:	10.18.19 14.00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 21.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 21.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 21.35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.25.19 21.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 21.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 21.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 21.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.25.19 21.35	
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.25.19 21.35	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-006	Date Collected:	10.18.19 14.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2780**	24.9	mg/kg	10.23.19 18.26		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.24.19 05.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	**388**	49.9	mg/kg	10.24.19 05.13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**110**	49.9	mg/kg	10.24.19 05.13		1
Total GRO-DRO	PHC628	**388**	49.9	mg/kg	10.24.19 05.13		1
Total TPH	PHC635	**498**	49.9	mg/kg	10.24.19 05.13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.24.19 05.13	
o-Terphenyl	84-15-1	95	%	70-135	10.24.19 05.13	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-006	Date Collected:	10.18.19 14.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 21.55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 21.55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 21.55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 21.55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 21.55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 21.55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 21.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.25.19 21.55	
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.25.19 21.55	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-007	Date Collected:	10.18.19 14.15	Sample Depth:	3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3120**	25.1	mg/kg	10.23.19 18.31		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.24.19 05.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**618**	49.8	mg/kg	10.24.19 05.34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**152**	49.8	mg/kg	10.24.19 05.34		1
Total GRO-DRO	PHC628	**618**	49.8	mg/kg	10.24.19 05.34		1
Total TPH	PHC635	**770**	49.8	mg/kg	10.24.19 05.34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.24.19 05.34	
o-Terphenyl	84-15-1	94	%	70-135	10.24.19 05.34	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02B**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-007	Date Collected:	10.18.19 14.15	Sample Depth:	3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.25.19 22.15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.25.19 22.15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.25.19 22.15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.25.19 22.15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.25.19 22.15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.25.19 22.15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.25.19 22.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.25.19 22.15	
1,4-Difluorobenzene	540-36-3	113	%	70-130	10.25.19 22.15	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-008	Date Collected:	10.18.19 14.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2950**	24.8	mg/kg	10.23.19 18.36		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 05.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1120**	50.0	mg/kg	10.24.19 05.55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**199**	50.0	mg/kg	10.24.19 05.55		1
Total GRO-DRO	PHC628	**1120**	50.0	mg/kg	10.24.19 05.55		1
Total TPH	PHC635	**1320**	50.0	mg/kg	10.24.19 05.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	10.24.19 05.55	
o-Terphenyl	84-15-1	90	%	70-135	10.24.19 05.55	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**PH02C**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-008	Date Collected:	10.18.19 14.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.25.19 22.35	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.25.19 22.35	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.25.19 22.35	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.25.19 22.35	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.25.19 22.35	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.25.19 22.35	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.25.19 22.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	10.25.19 22.35	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.25.19 22.35	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-009	Date Collected:	10.18.19 12.35	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1160**	25.0	mg/kg	10.23.19 18.41		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 06.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2380**	50.0	mg/kg	10.24.19 06.16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**570**	50.0	mg/kg	10.24.19 06.16		1
Total GRO-DRO	PHC628	**2380**	50.0	mg/kg	10.24.19 06.16		1
Total TPH	PHC635	**2950**	50.0	mg/kg	10.24.19 06.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	10.24.19 06.16	
o-Terphenyl	84-15-1	96	%	70-135	10.24.19 06.16	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-009	Date Collected:	10.18.19 12.35	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.25.19 22.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.25.19 22.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.25.19 22.55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.25.19 22.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.25.19 22.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.25.19 22.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.25.19 22.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.25.19 22.55	
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.25.19 22.55	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-010	Date Collected:	10.18.19 12.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.23.19 13.00	Basis:	Wet Weight
Seq Number:	3105211			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**406**	5.05	mg/kg	10.23.19 18.46		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	10.23.19 14.00	Basis:	Wet Weight
Seq Number:	3105286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.24.19 06.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1150**	50.0	mg/kg	10.24.19 06.48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**461**	50.0	mg/kg	10.24.19 06.48		1
Total GRO-DRO	PHC628	**1150**	50.0	mg/kg	10.24.19 06.48		1
Total TPH	PHC635	**1610**	50.0	mg/kg	10.24.19 06.48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	10.24.19 06.48	
o-Terphenyl	84-15-1	91	%	70-135	10.24.19 06.48	

Certificate of Analytical Results 640657

LT Environmental, Inc., Arvada, CO

Indian Flats Bass Federal #4

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	10.22.19 10.50
Lab Sample Id:	640657-010	Date Collected:	10.18.19 12.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	10.25.19 15.30	Basis:	Wet Weight
Seq Number:	3105497			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.25.19 23.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.25.19 23.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.25.19 23.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.25.19 23.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.25.19 23.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.25.19 23.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.25.19 23.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	10.25.19 23.15	
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.25.19 23.15	

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: 9/21/2022 2:36:52 PM

QC Summary 640657

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105211 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688721-1-BLK — LCS Sample Id: 7688721-1-BKS — LCSD Sample Id: 7688721-1-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	259	104	262	105	90-110	1	20	mg/kg	10.23.19 16:18	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105211 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640655-009 — MS Sample Id: 640655-009 S — MSD Sample Id: 640655-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	422	248	661	96	663	97	90-110	0	20	mg/kg	10.23.19 16:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3105211 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640657-001 — MS Sample Id: 640657-001 S — MSD Sample Id: 640657-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	229	252	483	101	477	98	90-110	1	20	mg/kg	10.23.19 17:46	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105286 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688739-1-BLK — LCS Sample Id: 7688739-1-BKS — LCSD Sample Id: 7688739-1-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	984	98	988	99	70-135	0	20	mg/kg	10.23.19 22:15	
Diesel Range Organics (DRO)	<15.0	1000	913	91	922	92	70-135	1	20	mg/kg	10.23.19 22:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		100		100		70-135	%	10.23.19 22:15
o-Terphenyl	94		99		102		70-135	%	10.23.19 22:15

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105286 — Matrix: Solid — Date Prep: 10.23.19
MB Sample Id: 7688739-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.23.19 21:54	

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 640657

LT Environmental, Inc.

Indian Flats Bass Federal #4

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3105286 — Matrix: Soil — Date Prep: 10.23.19
Parent Sample Id: 640652-001 — MS Sample Id: 640652-001 S — MSD Sample Id: 640652-001 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)	20.6	997	1040	102	1030	101	70-135	1	20	mg/kg	10.23.19 23:17	
Diesel Range Organics (DRO)	<15.0	997	993	100	983	99	70-135	1	20	mg/kg	10.23.19 23:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		98		70-135	%	10.23.19 23:17
o-Terphenyl	95		93		70-135	%	10.23.19 23:17

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105497 — Matrix: Solid — Date Prep: 10.25.19
MB Sample Id: 7688934-1-BLK — LCS Sample Id: 7688934-1-BKS — LCSD Sample Id: 7688934-1-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	0.0992	99	0.114	114	70-130	14	35	mg/kg	10.25.19 18:35	
Toluene	<0.00200	0.100	0.0901	90	0.104	104	70-130	14	35	mg/kg	10.25.19 18:35	
Ethylbenzene	<0.00200	0.100	0.0889	89	0.103	103	70-130	15	35	mg/kg	10.25.19 18:35	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.207	104	70-130	13	35	mg/kg	10.25.19 18:35	
o-Xylene	<0.00200	0.100	0.0863	86	0.102	102	70-130	17	35	mg/kg	10.25.19 18:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		96		102		70-130	%	10.25.19 18:35
4-Bromofluorobenzene	91		98		109		70-130	%	10.25.19 18:35

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3105497 — Matrix: Soil — Date Prep: 10.25.19
Parent Sample Id: 640657-001 — MS Sample Id: 640657-001 S — MSD Sample Id: 640657-001 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	0.110	110	0.104	104	70-130	6	35	mg/kg	10.25.19 19:15	
Toluene	<0.00200	0.100	0.101	101	0.0980	98	70-130	3	35	mg/kg	10.25.19 19:15	
Ethylbenzene	<0.00200	0.100	0.102	102	0.0968	97	70-130	5	35	mg/kg	10.25.19 19:15	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.197	99	70-130	4	35	mg/kg	10.25.19 19:15	
o-Xylene	<0.00200	0.100	0.0931	93	0.0881	88	70-130	6	35	mg/kg	10.25.19 19:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		105		70-130	%	10.25.19 19:15
4-Bromofluorobenzene	99		102		70-130	%	10.25.19 19:15

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 739 of 744

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: 640457

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 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Indian Flats Bass Federal #4	Turn Around	
Project Number:	2RP-3703	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.0 Corr'd 1.2	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:	10

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH01	S	10/18/2019	1340	1	1	X	X	X
PH01A	S	10/18/2019	1345	2	1	X	X	X
PH01B	S	10/18/2019	1350	3	1	X	X	X
PH01C	S	10/18/2019	1355	4	1	X	X	X
PH02	S	10/18/2019	1400	1	1	X	X	X
PH02A	S	10/18/2019	1410	2	1	X	X	X
PH02B	S	10/18/2019	1415	3	1	X	X	X
PH02C	S	10/18/2019	1420	4	1	X	X	X
BH01	S	10/18/2019	1235	1	1	X	X	X
BH02	S	10/18/2019	1240	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

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

ce: 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
ervice. 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
enco. 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
Spencer Lo	Anne Byers	10/22/19 1010	2 Anne Byers	Courtney	10/22/19 10:50
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 5/13/2020 2:22:43 PM
Final 1.000
Page 30 of 34
Released to Imaging: 9/21/2022 2:36:52 PM

Inter-Office Shipment

IOS Number **50576**

Date/Time: 10/22/19 12:36
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776785946410

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
640657-001	S	PH01	10/18/19 13:40	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-001	S	PH01	10/18/19 13:40	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-001	S	PH01	10/18/19 13:40	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-002	S	PH01A	10/18/19 13:45	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-002	S	PH01A	10/18/19 13:45	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-002	S	PH01A	10/18/19 13:45	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-003	S	PH01B	10/18/19 13:50	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-003	S	PH01B	10/18/19 13:50	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-003	S	PH01B	10/18/19 13:50	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-004	S	PH01C	10/18/19 13:55	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-004	S	PH01C	10/18/19 13:55	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-004	S	PH01C	10/18/19 13:55	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-005	S	PH02	10/18/19 14:00	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-005	S	PH02	10/18/19 14:00	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-005	S	PH02	10/18/19 14:00	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-006	S	PH02A	10/18/19 14:10	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-006	S	PH02A	10/18/19 14:10	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-006	S	PH02A	10/18/19 14:10	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-007	S	PH02B	10/18/19 14:15	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-007	S	PH02B	10/18/19 14:15	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-007	S	PH02B	10/18/19 14:15	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-008	S	PH02C	10/18/19 14:20	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-008	S	PH02C	10/18/19 14:20	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-008	S	PH02C	10/18/19 14:20	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	
640657-009	S	BH01	10/18/19 12:35	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment

IOS Number **50576**

Date/Time: 10/22/19 12:36
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776785946410

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
640657-009	S	BH01	10/18/19 12:35	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-009	S	BH01	10/18/19 12:35	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-010	S	BH02	10/18/19 12:40	SW8021B	BTEX by EPA 8021B	10/28/19	11/01/19	JKR	BR4FBZ BZ BZME EBZ X	
640657-010	S	BH02	10/18/19 12:40	E300_CL	Chloride by EPA 300	10/28/19	04/15/20	JKR	CL	
640657-010	S	BH02	10/18/19 12:40	SW8015MOD_NM	TPH by SW8015 Mod	10/28/19	11/01/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 10/22/2019

Received By: Brianna Teel

Date Received: 10/23/2019 11:02

Cooler Temperature: 0.3

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 50576

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 10/22/2019 12:36 PM

Received By: Brianna Teel **Date Received:** 10/23/2019 11:02 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.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: 10/23/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/22/2019 10:50:00 AM

Work Order #: 640657

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?	**Yes**	
#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 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: 10/22/2019

Checklist reviewed by: Jessica Kramer Date: 10/22/2019

Jessica Kramer

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 8272

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 8272
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	9/21/2022