



LT Environmental, Inc.

3300 North "A" Street
Building 1, Unit 103
Midland, Texas 79705
432.704.5178

February 11, 2019

Mr. Bradford Billings
New Mexico Oil Conservation Division
1220 South St. Francis Drive, #3
Santa Fe, New Mexico 87505**RE: Closure Request
Horned Toad 36 State #002H
Remediation Permit Number 2RP-4850
Eddy County, New Mexico**

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following report detailing excavation of impacted soil and confirmation soil sampling activities at the Horned Toad 36 State #002H (Site) located in Unit Letter B, Section 36, Township 24 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The latitude and longitude of the release are 32.180459 degrees (°), -103.937263°. The purpose of the excavation activities was to address impact to soil after a 1-inch valve on the well head was discovered to be open and caused the release of 9 barrels (bbls) of crude oil and 13 bbls of produced water. The release was mostly contained to the well pad, with a small amount of liquid flowing onto the south-adjacent pasture. The release was discovered on June 25, 2018 and XTO recovered 2 bbls of oil and 2.5 bbls of produced water. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on July 9, 2018 and it was assigned Remediation Permit Number (RP) 2RP-4850 (Attachment 1).

The release is included in the *Compliance Agreement for Remediation for Historical Releases* (Compliance Agreement) between XTO and the 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 New Mexico Administrative Code (NMAC) dated August 14, 2018. The release is categorized as a Tier II site in the Compliance Agreement, meaning remediation of the release began prior to August 14, 2018, the effective date of 19.15.29 NMAC, however the closure report is pending. Based on the excavation activities and results of the confirmation soil sampling events, XTO is requesting no further action for this release.

BACKGROUND

According to Section 12 of 19.15.29 NMAC, LTE applied Table 1, the *Closure Criteria for Soils Impacted by a Release*. Depth to groundwater at the Site is estimated to be greater than 100 feet





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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 320956103574301 25S.29E.02.11111, located approximately 1.79 miles southwest of the Site, with a depth to groundwater of 98.1 feet and a total depth of 140 feet. The water well is approximately 111 feet lower in elevation than the Site. Water well data for USGS 320956103574301 25S.29E.02.11111 was last updated in 1958. The closest significant watercourse to the Site is an unnamed second order tributary to Cedar Canyon located approximately 182 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. Based on these criteria, the following NMOCD Table 1 closure criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 100 mg/kg total petroleum hydrocarbons (TPH); and 600 mg/kg chloride.

SOIL SAMPLING

On June 26, 2018, an LTE scientist collected 5 soil samples (SS01 through SS05) to assess the lateral extent of soil impacts. The soil sample locations were selected based on information provided on the initial Form C-141 and field observations (Figure 2). Staining was observed in the areas sampled on the well pad. To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, samples were collected at 0.5 feet bgs.

The soil samples were screened for volatile aromatic hydrocarbons using a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp. The soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples were shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH oil range organics (ORO) by USEPA Method 8015M/D, and chloride by USEPA Method 300.0.

Laboratory analytical results for preliminary soil samples indicated that BTEX concentrations were compliant with NMOCD Table 1 Closure Criteria. TPH concentrations of 23,300 mg/kg in SS02 exceeded the NMOCD Table 1 Closure Criteria of 100 mg/kg. Soil sample results indicated that chloride concentrations of 2,400 mg/kg and 16,300 mg/kg exceeded the closure criteria of 600 mg/kg in SS01 and SS02, respectively. Soil samples collected south of the well pad (SS03 through SS05) were compliant with NMOCD Table 1 Closure Criteria for BTEX, TPH, and chloride. The laboratory analytical results are depicted on Figure 2, summarized in Table 1, and the complete reports are included as Attachment 2.





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EXCAVATION ACTIVITIES

LTE personnel returned to the Site to oversee the excavation of impacted soil as indicated by field screening and laboratory analytical results exceeding the NMOCD Table 1 Closure Criteria for chloride in the vicinity of preliminary soil samples SS01 and SS02 and for TPH near SS02. To delineate hydrocarbon and chloride impacts to soil and to direct excavation activities, LTE screened soil using a PID and Hach® chloride QuanTab® test strips.

The excavation ultimately extended to all preliminary sampling locations and measured approximately 39,200 square feet in area with the depth ranging from approximately 2 feet to 8.5 feet bgs. The horizontal extent and final sample locations of the excavation are illustrated on Figure 3. Approximately 2,842 cubic yards of impacted soil were removed using a mini-excavator, loader, dump truck, and hydro-vacuum. Impacted soil was transported and properly disposed of at the Lea Land Landfill Facility, in Hobbs, New Mexico.

LTE collected 40 final excavation confirmation soil samples: 15 floor samples (FS01 through FS15), and 28 sidewall samples (SW01 through SW25). A total of 3 excavation confirmation samples (SW03, SW11 and SW11A) exceeded NMOCD Table 1 Closure Criteria and additional impacted soil was excavated from the Site.

Because the excavation was conducted prior to implementation of 19.15.29 NMAC and the Compliance Agreement, excavation confirmation samples were collected as discrete samples instead of composite samples. Because the area of impacted soil could be visually discerned, and the location of the release was well documented, LTE applied a judgmental sampling protocol, selecting sample locations based on visual observation to represent the floor and sidewalls of the excavation. The sampling protocol complied with *Guidance on Choosing a Sampling Design for Environmental Data Collection for Use in Developing a Quality Assurance Project Plan*, EPA QA/G-5S, December 2002. The confirmation soil samples were collected and handled as previously described and submitted to Xenco in Midland, Texas.

ANALYTICAL RESULTS

Excavation confirmation samples were collected as impacted soil was removed. Laboratory analytical results for confirmation soil samples SW03, SW11, and SW11A exceeded NMOCD Table 1 Closure Criteria; therefore, additional soil was removed from those locations and additional soil samples were collected from the new sidewalls to confirm removal of impacted soil. All final excavation confirmation soil samples were compliant with the NMOCD Table 1 Closure Criteria for BTEX, TPH, and chloride. Laboratory analytical results are depicted on Figure 2, summarized in Table 1, and the complete reports are included as Attachment 2. A photographic log is included as Attachment 3.





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CONCLUSIONS

The impacted soil was excavated from the release area and laboratory analytical results for the confirmation soil samples collected from the final excavation extent indicate that BTEX, TPH, and chloride concentrations are compliant with NMOCD Table 1 Closure Criteria. XTO has successfully removed the impacted soil at the Site and requests no further action for this release. Upon approval of the no further action request, 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 as Attachment 1.

If you have any questions or comments, please do not hesitate to contact Adrian Baker at (432) 887-1255 or abaker@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink that reads 'Adrian Baker'.

Adrian Baker
Project Geologist

A handwritten signature in black ink that reads 'Ashley L. Ager'.

Ashley L. Ager, M.S., P.G.
Senior Geologist

cc: Kyle Littrell, XTO
Mike Bratcher, NMOCD
Ryan Mann, State Land Office

Attachments:

Figure 1 Site Location Map
Figure 2 Initial Soil Sample Locations
Figure 3 Final Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-4850)
Attachment 2 Laboratory Analytical Reports
Attachment 3 Photographic Log



FIGURES



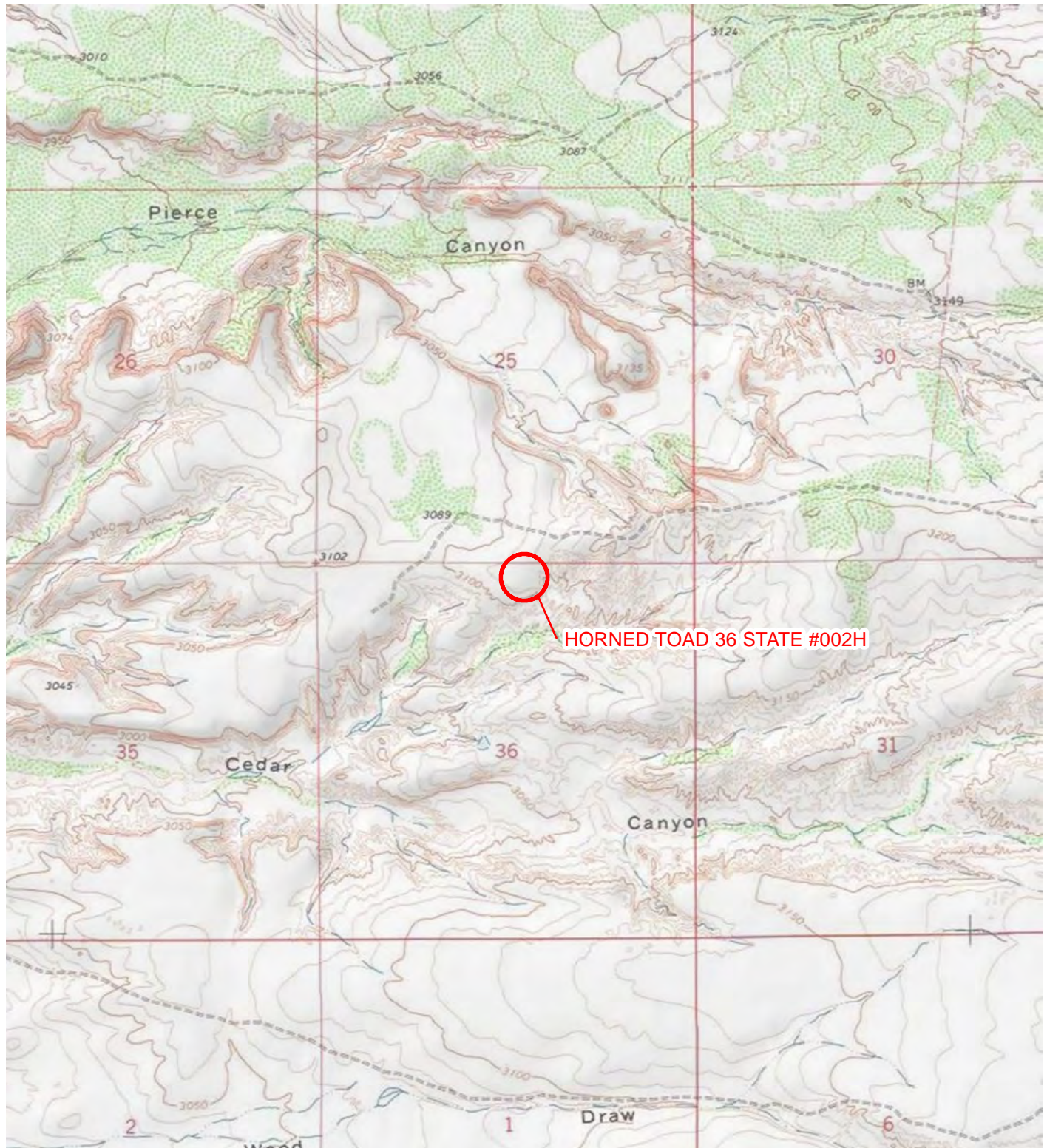


IMAGE COURTESY OF ESRI/USGS

LEGEND SITE LOCATION

0 2,000 4,000
Feet



NOTE: REMEDIATION PERMIT
NUMBER 2RP-4850

FIGURE 1
SITE LOCATION MAP
HORNED TOAD 36 STATE #002H
UNIT B SEC 36 T24S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



P:\XTO Energy\GIS\MXD\012918129_HORNED TOAD 36 STATE #002H\012918129_FIG01_SL_2018_4850.mxd

SAMPLE ID@DEPTH BELOW GROUND SURFACE
 SAMPLE DATE
 NMOCD TABLE 1 CLOSURE CRITERIA (NMAC 19.15.29.12)
 B = 10 mg/kg
 BTEX = 50 mg/kg
 TPH = 100 mg/kg
 Cl = 600 mg/kg
 ALL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)
 <: INDICATES RESULT IS LESS THAN THE
 LABORATORY REPORTING LIMIT
BOLD: INDICATES RESULT EXCEEDS THE
 APPLICABLE STANDARD

SS01@0.5'
 06/26/2018
 B: <0.00198
 BTEX: <0.00198
 TPH: <15.0
 Cl: **2,400**

SS02@0.5'
 06/26/2018
 B: 0.00997
 BTEX: 1.81
 TPH: **23,300**
 Cl: **16,300**

SS04@0.5'
 06/26/2018
 B: <0.00201
 BTEX: <0.00201
 TPH: 20.6
 Cl: 6.87

SS03@0.5'
 06/26/2018
 B: <0.00202
 BTEX: <0.00202
 TPH: 22.9
 Cl: 24.5

SS05@0.5'
 06/26/2018
 B: <0.00200
 BTEX: <0.00200
 TPH: 44.7
 Cl: 93.8

LEGEND



RELEASE LOCATION



PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS
 EXCEEDING APPLICABLE STANDARDS



PRELIMINARY SOIL SAMPLE IN COMPLIANCE
 WITH APPLICABLE STANDARDS

B: BENZENE

BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE,
 AND TOTAL XYLENES

TPH – TOTAL PETROLEUM HYDROCARBONS

Cl - CHLORIDE

NMAC – NEW MEXICO ADMINISTRATIVE CODE

NMOCD – NEW MEXICO OIL CONSERVATION DIVISION

NOTE: REMEDIATION PERMIT NUMBER 2RP-4850

IMAGE COURTESY OF GOOGLE EARTH 2017

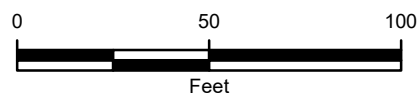


FIGURE 2
 PRELIMINARY SOIL SAMPLE LOCATIONS
 HORNE TOAD 36 STATE #002H
 UNIT B SEC 36 T24S R29E
 EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



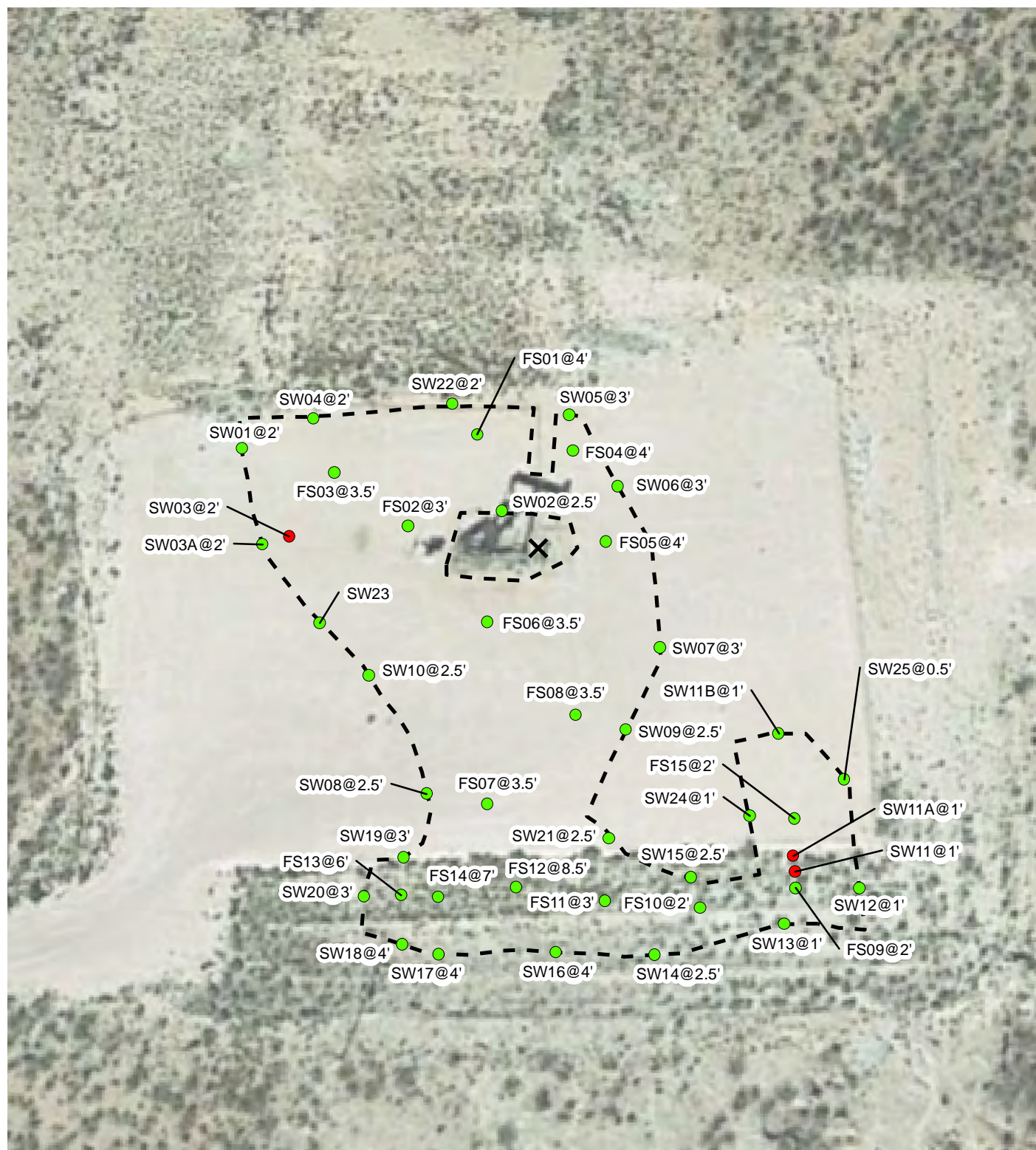
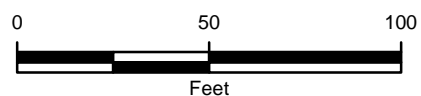
**LEGEND**

IMAGE COURTESY OF GOOGLE EARTH 2017

- X** RELEASE LOCATION
- EXCAVATION CONFIRMATION SAMPLE
- FINAL EXCAVATION CONFIRMATION SAMPLE
- - -** EXCAVATION EXTENT AS OF 11/05/2018



NOTE: REMEDIATION PERMIT NUMBER 2RP-4850

FIGURE 3
FINAL SOIL SAMPLE LOCATIONS
HORNED TOAD 36 STATE #002H
UNIT B SEC 36 T24S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



P:\XTO Energy\GIS\MXD\012918129_HORNED TOAD 36 STATE #002H\012918129_FIG03_SITE_2018_4850.mxd

TABLES



**TABLE 1
SOIL ANALYTICAL RESULTS**

**HORNED TOAD 36 STATE #002H
REMEDATION PERMIT NUMBER 2RP-4850
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.**

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | C6-C10 GRO (mg/kg) | C10-C28 DRO (mg/kg) | C28-C40 ORO (mg/kg) | GRO and DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|-------------|-------------------------|-------------|-----------------|-----------------|----------------------|-----------------------|--------------------|--------------------|---------------------|---------------------|---------------------|-------------|------------------|
| SS01 | 0.5 | 06/26/2018 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 2,400 |
| SS02 | 0.5 | 06/26/2018 | 0.00997 | 0.280 | 0.323 | 1.20 | 1.81 | 2,650 | 20,400 | 268 | 23,100 | 23,300 | 16,300 |
| SS03 | 0.5 | 06/26/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | 22.9 | <15.0 | <15.0 | 22.9 | 22.9 | 24.5 |
| SS04 | 0.5 | 06/26/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | 20.6 | <15.0 | <15.0 | 20.6 | 20.6 | 6.87 |
| SS05 | 0.5 | 06/26/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 26.0 | 18.7 | <15.0 | 44.7 | 44.7 | 93.8 |
| FS01 | 4 | 08/03/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | <4.97 |
| FS02 | 3 | 08/03/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 232 |
| FS03 | 3.5 | 08/03/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 322 |
| SW01 | 2 | 08/03/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 6.82 |
| SW02 | 2.5 | 08/03/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 493 |
| SW03 | 2 | 08/03/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | 182 | <15.0 | 182 | 182 | 307 |
| SW04 | 2 | 08/03/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 16.2 |
| FS04 | 4 | 08/06/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | 16.3 | <15.0 | 16.3 | 16.3 | 39.5 |
| SW05 | 3 | 08/06/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 77.6 |
| SW06 | 3 | 08/06/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 18.9 |
| SW07 | 3 | 08/06/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 32.8 |
| FS05 | 4 | 08/07/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | 15.8 | <15.0 | 15.8 | 15.8 | 12.6 |
| FS06 | 3.5 | 08/07/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | 54.6 | <15.0 | 54.6 | 54.6 | 59.3 |
| FS07 | 3.5 | 08/07/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | 58.9 | <15.0 | 58.9 | 58.9 | 40.5 |
| SW08 | 2.5 | 08/07/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | 12.4 |
| FS08 | 3.5 | 08/08/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | 23.3 | <15.0 | 23.3 | 23.3 | 145 |
| FS09 | 2 | 08/08/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 25.6 |
| SW09 | 2.5 | 08/08/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <14.9 | 24.4 | <14.9 | 24.4 | 24.4 | 294 |
| FS10 | 2 | 08/09/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | <4.97 |
| FS11 | 3 | 08/09/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | 47.8 | <15.0 | 47.8 | 47.8 | <4.95 |
| SW10 | 2.5 | 08/09/2018 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | 79.2 | <15.0 | 79.2 | 79.2 | 259 |
| SW11 | 1 | 08/09/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | 110 | <15.0 | 110 | 110 | 45.4 |



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS

HORNED TOAD 36 STATE #002H
REMEDATION PERMIT NUMBER 2RP-4850
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | C6-C10 GRO (mg/kg) | C10-C28 DRO (mg/kg) | C28-C40 ORO (mg/kg) | GRO and DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|--------------------------------|-------------------------|-------------|-----------------|-----------------|----------------------|-----------------------|--------------------|--------------------|---------------------|---------------------|---------------------|-------------|------------------|
| SW12 | 1 | 08/09/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 25.4 |
| SW13 | 1 | 08/09/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 21.3 |
| SW14 | 2.5 | 08/09/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 35.1 |
| SW15 | 2.5 | 08/09/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 34.2 |
| FS12 | 8.5 | 08/10/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 217 |
| FS13 | 6 | 08/10/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | 16.3 | <15.0 | 16.3 | 16.3 | 216 |
| SW16 | 4 | 08/10/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 40.1 |
| SW17 | 4 | 08/10/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | 102 |
| SW18 | 4 | 08/10/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 395 |
| SW19 | 3 | 08/10/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 140 |
| SW20 | 3 | 08/10/2018 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 164 |
| FS14 | 7 | 08/13/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 28.7 |
| SW21 | 2.5 | 08/13/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 52.1 |
| SW22 | 2 | 08/13/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 173 |
| SW11A | 1 | 10/22/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | 146 | 18.0 | 146 | 164 | 225 |
| SW03A | 2 | 10/23/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 327 |
| SW23 | 2 | 10/23/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 74.4 |
| FS15 | 2 | 11/05/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | 18.0 | <15.0 | 18.0 | 18.0 | <5.00 |
| SW11B | 1 | 11/05/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 7.47 |
| SW24 | 1 | 11/05/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 18.9 |
| SW25 | 0.5 | 11/05/2018 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 11.8 |
| NMOCD Table 1 Closure Criteria | | | 10 | NE | NE | NE | 50 | NE | NE | NE | NE | 100 | 600 |

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits

Bold - indicates result exceeds the applicable regulatory standard

* - indicates sample was collected in area to be reclaimed after remediation is complete; closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

NMAC - New Mexico Administrative Code



ATTACHMENT 1: INITIAL/FINAL NMOC FORM C-141 (2RP-4850)



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

JUL 09 2018

Form C-141
Revised April 3, 2017

Oil Conservation Division DISTRICT IV ARTESIA, NM
1220 South St. Francis Dr.
Santa Fe, NM 87505
District IV is the appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB 18/1187630

Please list BOPCD

OPERATOR

☒ Initial Report ☐ Final Report

| | |
|--|---|
| Name of Company: XTO Energy | Contact: Kyle Littrell |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No: 432-221-7331 |
| Facility Name: Horned Toad 36 State #002H | Facility Type: Exploration and Production |

| | | |
|----------------------|----------------------|----------------------|
| Surface Owner: State | Mineral Owner: State | API No: 30-015-35837 |
|----------------------|----------------------|----------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|----------------|
| Unit Letter B | Section 36 | Township 24S | Range 29E | Feet from the 220 | North/South Line North | Feet from the 2410 | East/West Line East | County Eddy |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|----------------|

Latitude 32.180459 Longitude -103.937263 NAD83

NATURE OF RELEASE

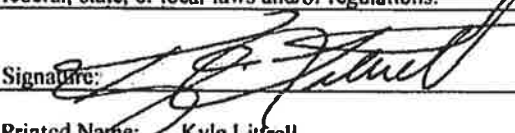
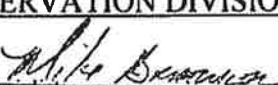
| | | |
|--|---|---|
| Type of Release Oil and produced water | Volume of Release 9bbl oil, 13bbl produced water | Volume Recovered 2bbl oil, 2.5bbl produced water |
| Source of Release 1" valve | Date and Hour of Occurrence 6/25/2018, AM | Date and Hour of Discovery 6/25/2018, 2:00 PM |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? N/A | |
| By Whom? N/A | Date and Hour: N/A | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.*
A 1" valve was discovered open on the well head. Valve was closed.

Describe Area Affected and Cleanup Action Taken.*
Fluid traveled south across the well pad, with a small amount impacting the pasture on the southern edge of the location. Vacuum trucks were dispatched and recovered 4.5 bbls of standing fluid. An environmental contractor has been retained to assist with delineation and remediation efforts.

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

| | | |
|--|---|----------------------|
| Signature:  | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Signed By:  Approved by Environmental Specialist: | |
| Title: Environmental Coordinator | Approval Date: 7/10/18 | Expiration Date: N/A |
| E-mail Address: Kyle.Littrell@xtoenergy.com | Conditions of Approval: See attached | |
| Date: 7/9/2018 Phone: 432-221-7331 | Attached: ARP-4850 | |

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/9/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4860 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/9/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

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 24, 2018
Submit to appropriate OCD District office

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-4850 |
| 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-4850 |
| Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220 | |

Location of Release Source

Latitude 32.180459 Longitude -103.937263
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|--------------------------------------|--|
| Site Name Horned Toad 36 State #002H | Site Type Production Bulk Storage Facility |
| Date Release Discovered 6/25/2018 | API# (if applicable) 30-015-35837 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| B | 36 | 24S | 29E | 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)

| | | |
|--|--|--|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 9 bbls | Volume Recovered (bbls) 2 bbls |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 13 bbls | Volume Recovered (bbls) 2.5 bbls |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

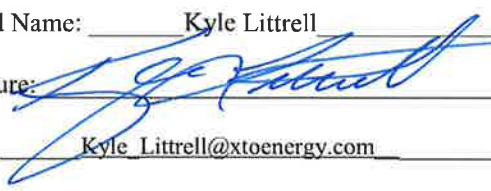
A 1" valve was discovered open on the well head. Valve was closed.

| | |
|----------------|----------------|
| Incident ID | Page 17 of 261 |
| District RP | 2RP-4850 |
| Facility ID | |
| Application ID | |

| | |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? By whom? To whom? When and by what means (phone, email, etc)? | |

Initial Response

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

| | |
|--|------------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. | |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. | |
| <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> 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: <u>Kyle Littrell</u> | Title: <u>SH&E Coordinator</u> |
| Signature:  | Date: <u>2/11/2019</u> |
| email: <u>Kyle.Littrell@xtoenergy.com</u> | Telephone: <u>(432)-221-7331</u> |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

| | |
|----------------|----------------|
| Incident ID | Page 18 of 261 |
| District RP | 2RP-4850 |
| 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.

| | |
|----------------|----------------|
| Incident ID | Page 19 of 261 |
| District RP | 2RP-4850 |
| 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 Coordinator

Signature:  Date: 02/11/2019

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

OCD Only

Received by: _____ Date: _____

| | |
|----------------|----------------|
| Incident ID | Page 20 of 261 |
| District RP | 2RP-4850 |
| Facility ID | |
| Application ID | |

Closure

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

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

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

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

Printed Name: Kyle Littrell Title: SH&E Coordinator

Signature:  Date: 02/11/2019

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: 2/24/2023

Printed Name: Brittany Hall Title: Environmental Specialist

ATTACHMENT 2 LABORATORY ANALYTICAL REPORTS



Analytical Report 590699

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2H

06-JUL-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



06-JUL-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **590699**

Horned Toad 36 State #2H

Project Address: Delaware Basin

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 590699. 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. 590699 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 590699****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SS01 | S | 06-26-18 14:38 | 6 In | 590699-001 |
| SS02 | S | 06-26-18 15:11 | 6 In | 590699-002 |
| SS03 | S | 06-26-18 14:53 | 6 In | 590699-003 |
| SS04 | S | 06-26-18 15:03 | 6 In | 590699-004 |
| SS05 | S | 06-26-18 15:04 | 6 In | 590699-005 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.
Project Name: Horned Toad 36 State #2H

Project ID:
Work Order Number(s): 590699

Report Date: 06-JUL-18
Date Received: 06/28/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3055410 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 590699

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H



Project Id:

Contact: Adrian Baker

Project Location: Delaware Basin

Date Received in Lab: Thu Jun-28-18 10:10 am

Report Date: 06-JUL-18

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 590699-001 | 590699-002 | 590699-003 | 590699-004 | 590699-005 | |
|------------------------------------|-------------------|------------------|-----------------|------------------|------------------|------------------|--|
| | <i>Field Id:</i> | SS01 | SS02 | SS03 | SS04 | SS05 | |
| | <i>Depth:</i> | 6- In | 6- In | 6- In | 6- In | 6- In | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | |
| | <i>Sampled:</i> | Jun-26-18 14:38 | Jun-26-18 15:11 | Jun-26-18 14:53 | Jun-26-18 15:03 | Jun-26-18 15:04 | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Jul-03-18 09:00 | Jul-03-18 09:00 | Jul-03-18 09:00 | Jul-03-18 09:00 | Jul-03-18 09:00 | |
| | <i>Analyzed:</i> | Jul-03-18 18:32 | Jul-03-18 20:59 | Jul-03-18 18:50 | Jul-03-18 19:09 | Jul-03-18 19:27 | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | |
| Benzene | | <0.00198 0.00198 | 0.00997 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00200 0.00200 | |
| Toluene | | <0.00198 0.00198 | 0.280 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00200 0.00200 | |
| Ethylbenzene | | <0.00198 0.00198 | 0.323 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00200 0.00200 | |
| m,p-Xylenes | | <0.00397 0.00397 | 0.800 0.00402 | <0.00404 0.00404 | <0.00402 0.00402 | <0.00399 0.00399 | |
| o-Xylene | | <0.00198 0.00198 | 0.399 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00200 0.00200 | |
| Total Xylenes | | <0.00198 0.00198 | 1.20 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00200 0.00200 | |
| Total BTEX | | <0.00198 0.00198 | 1.81 0.00201 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00200 0.00200 | |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | Jul-02-18 10:00 | Jul-02-18 10:00 | Jul-02-18 10:00 | Jul-02-18 10:00 | Jul-02-18 10:00 | |
| | <i>Analyzed:</i> | Jul-02-18 12:52 | Jul-02-18 12:57 | Jul-02-18 13:03 | Jul-02-18 13:08 | Jul-02-18 13:14 | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | |
| Chloride | | 2400 49.9 | 16300 250 | 24.5 4.98 | 6.87 4.99 | 93.8 4.99 | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Jun-29-18 17:00 | Jun-29-18 08:00 | Jun-29-18 08:00 | Jun-29-18 08:00 | Jun-29-18 08:00 | |
| | <i>Analyzed:</i> | Jun-29-18 19:54 | Jun-29-18 17:05 | Jun-29-18 17:27 | Jun-29-18 17:48 | Jun-29-18 18:09 | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | 2650 150 | 22.9 15.0 | 20.6 15.0 | 26.0 15.0 | |
| Diesel Range Organics (DRO) | | <15.0 15.0 | 20400 150 | <15.0 15.0 | <15.0 15.0 | 18.7 15.0 | |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | 268 150 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | |
| Total TPH | | <15.0 15.0 | 23300 150 | 22.9 15.0 | 20.6 15.0 | 44.7 15.0 | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS01**
 Lab Sample Id: 590699-001

Matrix: Soil
 Date Collected: 06.26.18 14.38

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3055266

Date Prep: 07.02.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 2400 | 49.9 | mg/kg | 07.02.18 12.52 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3055312

Date Prep: 06.29.18 17.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 06.29.18 19.54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 06.29.18 19.54 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 06.29.18 19.54 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 06.29.18 19.54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 74 | % | 70-135 | 06.29.18 19.54 | |
| o-Terphenyl | 84-15-1 | 70 | % | 70-135 | 06.29.18 19.54 | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS01**
 Lab Sample Id: 590699-001

Matrix: Soil
 Date Collected: 06.26.18 14.38

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.03.18 09.00

Basis: Wet Weight

Seq Number: 3055410

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.03.18 18.32 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.03.18 18.32 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.03.18 18.32 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.03.18 18.32 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.03.18 18.32 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.03.18 18.32 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.03.18 18.32 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 07.03.18 18.32 | | |
| 1,4-Difluorobenzene | 540-36-3 | 119 | % | 70-130 | 07.03.18 18.32 | | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS02**
 Lab Sample Id: 590699-002

Matrix: Soil
 Date Collected: 06.26.18 15.11

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3055266

Date Prep: 07.02.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 16300 | 250 | mg/kg | 07.02.18 12.57 | | 50 |

Analytical Method: TPH by SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3055311

Date Prep: 06.29.18 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 2650 | 150 | mg/kg | 06.29.18 17.05 | | 10 |
| Diesel Range Organics (DRO) | C10C28DRO | 20400 | 150 | mg/kg | 06.29.18 17.05 | | 10 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | 268 | 150 | mg/kg | 06.29.18 17.05 | | 10 |
| Total TPH | PHC635 | 23300 | 150 | mg/kg | 06.29.18 17.05 | | 10 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-135 | 06.29.18 17.05 | |
| o-Terphenyl | 84-15-1 | 77 | % | 70-135 | 06.29.18 17.05 | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS02**
 Lab Sample Id: 590699-002

Matrix: Soil
 Date Collected: 06.26.18 15.11

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3055410

Date Prep: 07.03.18 09.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | 0.00997 | 0.00201 | mg/kg | 07.03.18 20.59 | | 1 |
| Toluene | 108-88-3 | 0.280 | 0.00201 | mg/kg | 07.03.18 20.59 | | 1 |
| Ethylbenzene | 100-41-4 | 0.323 | 0.00201 | mg/kg | 07.03.18 20.59 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.800 | 0.00402 | mg/kg | 07.03.18 20.59 | | 1 |
| o-Xylene | 95-47-6 | 0.399 | 0.00201 | mg/kg | 07.03.18 20.59 | | 1 |
| Total Xylenes | 1330-20-7 | 1.20 | 0.00201 | mg/kg | 07.03.18 20.59 | | 1 |
| Total BTEX | | 1.81 | 0.00201 | mg/kg | 07.03.18 20.59 | | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 07.03.18 20.59 | | |
| 1,4-Difluorobenzene | 540-36-3 | 71 | % | 70-130 | 07.03.18 20.59 | | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS03**
Lab Sample Id: 590699-003

Matrix: Soil
Date Collected: 06.26.18 14.53

Date Received: 06.28.18 10.10
Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3055266

Date Prep: 07.02.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 24.5 | 4.98 | mg/kg | 07.02.18 13.03 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3055311

Date Prep: 06.29.18 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 22.9 | 15.0 | mg/kg | 06.29.18 17.27 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 06.29.18 17.27 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 06.29.18 17.27 | U | 1 |
| Total TPH | PHC635 | 22.9 | 15.0 | mg/kg | 06.29.18 17.27 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-135 | 06.29.18 17.27 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-135 | 06.29.18 17.27 | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS03**
 Lab Sample Id: 590699-003

Matrix: Soil
 Date Collected: 06.26.18 14.53

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.03.18 09.00

Basis: Wet Weight

Seq Number: 3055410

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 07.03.18 18.50 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 07.03.18 18.50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 07.03.18 18.50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 07.03.18 18.50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 07.03.18 18.50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 07.03.18 18.50 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 07.03.18 18.50 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 125 | % | 70-130 | 07.03.18 18.50 | | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.03.18 18.50 | | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS04**
 Lab Sample Id: 590699-004

Matrix: Soil
 Date Collected: 06.26.18 15.03

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3055266

Date Prep: 07.02.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 6.87 | 4.99 | mg/kg | 07.02.18 13.08 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3055311

Date Prep: 06.29.18 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 20.6 | 15.0 | mg/kg | 06.29.18 17.48 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 06.29.18 17.48 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 06.29.18 17.48 | U | 1 |
| Total TPH | PHC635 | 20.6 | 15.0 | mg/kg | 06.29.18 17.48 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-135 | 06.29.18 17.48 | |
| o-Terphenyl | 84-15-1 | 80 | % | 70-135 | 06.29.18 17.48 | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS04**
 Lab Sample Id: 590699-004

Matrix: Soil
 Date Collected: 06.26.18 15.03

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3055410

Date Prep: 07.03.18 09.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.03.18 19.09 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.03.18 19.09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.03.18 19.09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.03.18 19.09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.03.18 19.09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.03.18 19.09 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.03.18 19.09 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 07.03.18 19.09 | | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 07.03.18 19.09 | | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS05**
 Lab Sample Id: 590699-005

Matrix: Soil
 Date Collected: 06.26.18 15.04

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3055266

Date Prep: 07.02.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 93.8 | 4.99 | mg/kg | 07.02.18 13.14 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: JUM

Analyst: JUM

Seq Number: 3055311

Date Prep: 06.29.18 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 26.0 | 15.0 | mg/kg | 06.29.18 18.09 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 18.7 | 15.0 | mg/kg | 06.29.18 18.09 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 06.29.18 18.09 | U | 1 |
| Total TPH | PHC635 | 44.7 | 15.0 | mg/kg | 06.29.18 18.09 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-135 | 06.29.18 18.09 | |
| o-Terphenyl | 84-15-1 | 78 | % | 70-135 | 06.29.18 18.09 | |



Certificate of Analytical Results 590699

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SS05**
 Lab Sample Id: 590699-005

Matrix: Soil
 Date Collected: 06.26.18 15.04

Date Received: 06.28.18 10.10
 Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.03.18 09.00

Basis: Wet Weight

Seq Number: 3055410

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.03.18 19.27 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.03.18 19.27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.03.18 19.27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.03.18 19.27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.03.18 19.27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.03.18 19.27 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.03.18 19.27 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 77 | % | 70-130 | 07.03.18 19.27 | | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 07.03.18 19.27 | | |



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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3055266

MB Sample Id: 7657641-1-BLK

Matrix: Solid

LCS Sample Id: 7657641-1-BKS

Prep Method: E300P

Date Prep: 07.02.18

LCSD Sample Id: 7657641-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <4.99 | 250 | 247 | 99 | 247 | 99 | 90-110 | 0 | 20 | mg/kg | 07.02.18 10:48 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3055266

Parent Sample Id: 590645-023

Matrix: Soil

MS Sample Id: 590645-023 S

Prep Method: E300P

Date Prep: 07.02.18

MSD Sample Id: 590645-023 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 9.66 | 250 | 247 | 95 | 247 | 95 | 90-110 | 0 | 20 | mg/kg | 07.02.18 11:04 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3055266

Parent Sample Id: 590645-024

Matrix: Soil

MS Sample Id: 590645-024 S

Prep Method: E300P

Date Prep: 07.02.18

MSD Sample Id: 590645-024 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 10.6 | 250 | 252 | 97 | 251 | 96 | 90-110 | 0 | 20 | mg/kg | 07.02.18 12:20 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055311

MB Sample Id: 7657729-1-BLK

Matrix: Solid

LCS Sample Id: 7657729-1-BKS

Prep Method: TX1005P

Date Prep: 06.29.18

LCSD Sample Id: 7657729-1-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 | 1030 | 103 | 976 | 98 | 70-135 | 5 | 20 | mg/kg | 06.29.18 09:19 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1110 | 111 | 1060 | 106 | 70-135 | 5 | 20 | mg/kg | 06.29.18 09:19 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 90 | | 113 | | 109 | | 70-135 | % | 06.29.18 09:19 |
| o-Terphenyl | 94 | | 122 | | 116 | | 70-135 | % | 06.29.18 09:19 |

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



LT Environmental, Inc.

Horned Toad 36 State #2H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055312

MB Sample Id: 7657730-1-BLK

Matrix: Solid

LCS Sample Id: 7657730-1-BKS

Prep Method: TX1005P

Date Prep: 06.29.18

LCSD Sample Id: 7657730-1-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 | 1070 | 107 | 1220 | 122 | 70-135 | 13 | 20 | mg/kg | 06.29.18 19:12 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1150 | 115 | 1290 | 129 | 70-135 | 11 | 20 | mg/kg | 06.29.18 19:12 | |
| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date | | | |
| 1-Chlorooctane | 99 | | 119 | | 81 | | 70-135 | % | 06.29.18 19:12 | | | |
| o-Terphenyl | 105 | | 128 | | 74 | | 70-135 | % | 06.29.18 19:12 | | | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055311

Parent Sample Id: 590435-001

Matrix: Soil

MS Sample Id: 590435-001 S

Prep Method: TX1005P

Date Prep: 06.29.18

MSD Sample Id: 590435-001 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 | 1000 | 974 | 97 | 960 | 96 | 70-135 | 1 | 20 | mg/kg | 06.29.18 10:24 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1050 | 105 | 1030 | 103 | 70-135 | 2 | 20 | mg/kg | 06.29.18 10:24 | |
| Surrogate | | | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date | | | |
| 1-Chlorooctane | | | 98 | | 97 | | 70-135 | % | 06.29.18 10:24 | | | |
| o-Terphenyl | | | 106 | | 104 | | 70-135 | % | 06.29.18 10:24 | | | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3055312

Parent Sample Id: 590699-001

Matrix: Soil

MS Sample Id: 590699-001 S

Prep Method: TX1005P

Date Prep: 06.29.18

MSD Sample Id: 590699-001 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 | 1000 | 1090 | 109 | 1070 | 107 | 70-135 | 2 | 20 | mg/kg | 06.29.18 20:15 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1230 | 123 | 1200 | 120 | 70-135 | 2 | 20 | mg/kg | 06.29.18 20:15 | |
| Surrogate | | | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date | | | |
| 1-Chlorooctane | | | 102 | | 118 | | 70-135 | % | 06.29.18 20:15 | | | |
| o-Terphenyl | | | 105 | | 103 | | 70-135 | % | 06.29.18 20:15 | | | |

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055410

MB Sample Id: 7657777-1-BLK

Matrix: Solid

LCS Sample Id: 7657777-1-BKS

Prep Method: SW5030B

Date Prep: 07.03.18

LCSD Sample Id: 7657777-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00201 | 0.100 | 0.0963 | 96 | 0.106 | 105 | 70-130 | 10 | 35 | mg/kg | 07.03.18 12:27 | |
| Toluene | <0.00201 | 0.100 | 0.101 | 101 | 0.108 | 107 | 70-130 | 7 | 35 | mg/kg | 07.03.18 12:27 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.101 | 101 | 0.110 | 109 | 70-130 | 9 | 35 | mg/kg | 07.03.18 12:27 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.211 | 105 | 0.227 | 112 | 70-130 | 7 | 35 | mg/kg | 07.03.18 12:27 | |
| o-Xylene | <0.00201 | 0.100 | 0.0978 | 98 | 0.103 | 102 | 70-130 | 5 | 35 | mg/kg | 07.03.18 12:27 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 75 | | 94 | | 116 | | 70-130 | % | 07.03.18 12:27 |
| 4-Bromofluorobenzene | 91 | | 85 | | 95 | | 70-130 | % | 07.03.18 12:27 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055410

Parent Sample Id: 590677-001

Matrix: Soil

MS Sample Id: 590677-001 S

Prep Method: SW5030B

Date Prep: 07.03.18

MSD Sample Id: 590677-001 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 | 0.0625 | 62 | 0.0538 | 53 | 70-130 | 15 | 35 | mg/kg | 07.03.18 13:04 | X |
| Toluene | <0.00201 | 0.101 | 0.0514 | 51 | 0.0497 | 49 | 70-130 | 3 | 35 | mg/kg | 07.03.18 13:04 | X |
| Ethylbenzene | <0.00201 | 0.101 | 0.0390 | 39 | 0.0427 | 42 | 70-130 | 9 | 35 | mg/kg | 07.03.18 13:04 | X |
| m,p-Xylenes | <0.00402 | 0.201 | 0.0840 | 42 | 0.0840 | 42 | 70-130 | 0 | 35 | mg/kg | 07.03.18 13:04 | X |
| o-Xylene | <0.00201 | 0.101 | 0.0377 | 37 | 0.0387 | 38 | 70-130 | 3 | 35 | mg/kg | 07.03.18 13:04 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 104 | | 85 | | 70-130 | % | 07.03.18 13:04 |
| 4-Bromofluorobenzene | 121 | | 78 | | 70-130 | % | 07.03.18 13:04 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



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 Stafford, TX (281) 240-4200
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 Service Center - Hobbs, NM (575) 392-7550

CHAIN OF CUSTODY

Page 1 of 1

Revision 2016.1

| Client / Reporting Information | | Project Information | | Analytical Information | | Matrix Codes | |
|--|--------------------------------|--|----------|---|--------|--|-----------------------------|
| Company Name / Branch: CT ENVIRONMENTAL, INC | | Project Name/Number: HO RENEED TOAD 36 STATE #24 | | | | | |
| Company Address: 3300 N. BIRTH "A" STREET, BUDSONGAL UNIT #103, MIDLAND, TX 79705 | | Project Location: | | | | | |
| Email: ABAKER@LTENV.COM | | Invoice To: XTD ENERGY - KYLE LITTELL | | | | | |
| Project Contact: ADRIAN BAKER | | PO Number: 06/25/2018 | | | | | |
| Samplers Name: MARK GELBAND | | | | | | | |
| No. | Field ID / Point of Collection | Sample Depth | Date | Time | Matrix | # of bottles | Number of preserved bottles |
| 1 | SS01 | 6" | 06/24/18 | 1738 | S | 1 | X |
| 2 | SS02 | | | 1511 | I | 1 | X |
| 3 | SS03 | | | 1453 | I | 1 | X |
| 4 | SS04 | | | 1503 | I | 1 | X |
| 5 | SS05 | | | 1504 | I | 1 | X |
| 6 | | | | | | | X |
| 7 | | | | | | | X |
| 8 | | | | | | | X |
| 9 | | | | | | | X |
| 10 | | | | | | | X |
| Turnaround Time (Business days) | | | | | | | |
| Data Deliverable Information | | | | | | | |
| <input type="checkbox"/> Same Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 3 Day EMERGENCY | | <input checked="" type="checkbox"/> 5 Day TAT <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> Contract TAT | | <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC + Forms <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> Level II Report with TRRP checklist | | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> UST / RG -411 | |
| TAT Starts Day received by Lab, if received by 5:00 pm | | | | | | | |
| Relinquished by Sampler: Mark Gelband | | Date Time: 06/27/2018 | | Relinquished By: [Signature] | | Date Time: 6/27/15:30 | |
| Relinquished by: [Signature] | | Date Time: 06/27/2018 | | Relinquished By: [Signature] | | Date Time: 6/27/15:30 | |
| Relinquished by: [Signature] | | Date Time: 06/27/2018 | | Relinquished By: [Signature] | | Date Time: 6/27/15:30 | |
| FED-EX / UPS: Tracking # 772584593635 | | | | | | | |
| On Fe 3.2 | | Tempo 1010 | | Corr Factor 0.0 | | | |

W = Water
 S = Soil/Sediment
 GW = Ground Water
 DW = Drinking Water
 P = Product
 SW = Surface Water
 SL = Sludge
 OW = Ocean/Sea Water
 WI = Wipe
 O = Oil
 WW = Waste Water
 A = Air

Field Comments

BTEX 80Z (ONLY BTEX)
 TPH (MRO, GRO, DRO) 80S
 CHLORIDE (300.1)

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

| | |
|-------------------------------|-------------------------|
| ORIGIN ID:MAFA (806) 794-1296 | SHIP DATE: 27 JUN18 |
| XENCO | ACTWTG1: 61.00 LB |
| 1211 W. FLORIDA AVE | CAD: 101813706NINET3980 |
| MIDLAND, TX 79701 | DIMS: 26x14x14 IN |
| UNITED STATES US | BILL RECIPIENT |

| |
|---------------------|
| TO XENCO |
| XENCO |
| 1211 W. FLORIDA AVE |
| MIDLAND TX 79701 |
| (806) 794-1296 |
| REF: |
| PO: |
| DEPT: |

| | |
|---------------------|---------------------|
| TRK# 7725 8459 3635 | THU - 28 JUN 10:30A |
| 0201 | PRIORITY OVERNIGHT |
| 41 MAFA | TX-US LBB |
| 79701 | |




552.12/93DF/DCA5

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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CUSTODY SEAL
Date 6/27/14
Signature [Signature]

Thermo
SCIENTIFIC
90009



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/28/2018 10:10:00 AM

Work Order #: 590699

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist**Comments**

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | 3.2 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | 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)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 06/28/2018

Checklist reviewed by:

Jessica Kramer

Date: 06/28/2018

Analytical Report 594936

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2H

12-NOV-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



12-NOV-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **594936**

Horned Toad 36 State #2H

Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 594936. 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. 594936 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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**Sample Cross Reference 594936****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| FS01 | S | 08-03-18 11:00 | 4 ft | 594936-001 |
| FS02 | S | 08-03-18 11:25 | 3 ft | 594936-002 |
| SW01 | S | 08-03-18 11:50 | 2 ft | 594936-003 |
| FS03 | S | 08-03-18 12:10 | 3.5 ft | 594936-004 |
| SW02 | S | 08-03-18 13:40 | 2.5 ft | 594936-005 |
| SW03 | S | 08-03-18 15:10 | 2 ft | 594936-006 |
| SW04 | S | 08-03-18 15:30 | 2 ft | 594936-007 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.
Project Name: Horned Toad 36 State #2H

Project ID:
Work Order Number(s): 594936

Report Date: 12-NOV-18
Date Received: 08/07/2018

Sample receipt non conformances and comments:

Per clients email request, corrected sample depth to 4' on sample 001. JKR 11/12/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3059525 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3059755 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 594936

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H



Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Tue Aug-07-18 03:00 pm

Report Date: 12-NOV-18

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 594936-001 | 594936-002 | 594936-003 | 594936-004 | 594936-005 | 594936-006 |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | FS01 | FS02 | SW01 | FS03 | SW02 | SW03 |
| | <i>Depth:</i> | 4- ft | 3- ft | 2- ft | 3.5- ft | 2.5- ft | 2- ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Aug-03-18 11:00 | Aug-03-18 11:25 | Aug-03-18 11:50 | Aug-03-18 12:10 | Aug-03-18 13:40 | Aug-03-18 15:10 |
| BTEX by EPA 8021B | <i>Extracted:</i> | Aug-09-18 09:00 | Aug-10-18 12:00 | Aug-10-18 12:00 | Aug-10-18 12:00 | Aug-10-18 12:00 | Aug-10-18 12:00 |
| | <i>Analyzed:</i> | Aug-09-18 20:58 | Aug-10-18 19:00 | Aug-10-18 23:10 | Aug-10-18 23:31 | Aug-10-18 19:41 | Aug-10-18 20:02 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Benzene | | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 |
| Toluene | | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 |
| Ethylbenzene | | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 |
| m,p-Xylenes | | <0.00401 0.00401 | <0.00402 0.00402 | <0.00404 0.00404 | <0.00398 0.00398 | <0.00399 0.00399 | <0.00401 0.00401 |
| o-Xylene | | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 |
| Total Xylenes | | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 |
| Total BTEX | | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | Aug-09-18 08:30 | Aug-09-18 08:30 | Aug-09-18 08:30 | Aug-09-18 08:30 | Aug-09-18 08:30 | Aug-09-18 08:30 |
| | <i>Analyzed:</i> | Aug-09-18 11:17 | Aug-09-18 14:46 | Aug-09-18 15:06 | Aug-09-18 15:12 | Aug-09-18 15:19 | Aug-09-18 15:26 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | <4.97 4.97 | 232 49.7 | 6.82 4.97 | 322 24.8 | 493 4.97 | 307 4.96 |
| TPH by SW8015 Mod | <i>Extracted:</i> | Aug-07-18 16:00 | Aug-07-18 16:00 | Aug-07-18 16:00 | Aug-07-18 16:00 | Aug-07-18 16:00 | Aug-08-18 13:00 |
| | <i>Analyzed:</i> | Aug-07-18 23:54 | Aug-08-18 00:13 | Aug-08-18 00:33 | Aug-08-18 00:53 | Aug-08-18 01:12 | Aug-08-18 15:32 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | 182 15.0 |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | 182 15.0 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 594936

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H



Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Tue Aug-07-18 03:00 pm

Report Date: 12-NOV-18

Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-------------------|------------------|--|--|--|--|--|
| Analysis Requested | Lab Id: | 594936-007 | | | | | |
| | Field Id: | SW04 | | | | | |
| | Depth: | 2- ft | | | | | |
| | Matrix: | SOIL | | | | | |
| | Sampled: | Aug-03-18 15:30 | | | | | |
| BTEX by EPA 8021B | Extracted: | Aug-10-18 12:00 | | | | | |
| | Analyzed: | Aug-10-18 20:23 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Benzene | | <0.00201 0.00201 | | | | | |
| Toluene | | <0.00201 0.00201 | | | | | |
| Ethylbenzene | | <0.00201 0.00201 | | | | | |
| m,p-Xylenes | | <0.00402 0.00402 | | | | | |
| o-Xylene | | <0.00201 0.00201 | | | | | |
| Total Xylenes | | <0.00201 0.00201 | | | | | |
| Total BTEX | | <0.00201 0.00201 | | | | | |
| Inorganic Anions by EPA 300 | Extracted: | Aug-09-18 08:30 | | | | | |
| | Analyzed: | Aug-09-18 15:32 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Chloride | | 16.2 4.97 | | | | | |
| TPH by SW8015 Mod | Extracted: | Aug-08-18 13:00 | | | | | |
| | Analyzed: | Aug-08-18 16:30 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | | | | | |
| Diesel Range Organics (DRO) | | <15.0 15.0 | | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | | | | | |
| Total TPH | | <15.0 15.0 | | | | | |

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Version: 1.9%

Jessica Kramer

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Project Assistant



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS01**
 Lab Sample Id: 594936-001

Matrix: Soil
 Date Collected: 08.03.18 11.00

Date Received: 08.07.18 15.00
 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3059563

Date Prep: 08.09.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.97 | 4.97 | mg/kg | 08.09.18 11.17 | U | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059210

Date Prep: 08.07.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.07.18 23.54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.07.18 23.54 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.07.18 23.54 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.07.18 23.54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.07.18 23.54 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-135 | 08.07.18 23.54 | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS01**
 Lab Sample Id: 594936-001

Matrix: Soil
 Date Collected: 08.03.18 11.00

Date Received: 08.07.18 15.00
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.09.18 09.00

Basis: Wet Weight

Seq Number: 3059525

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.09.18 20.58 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.09.18 20.58 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.09.18 20.58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 08.09.18 20.58 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.09.18 20.58 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.09.18 20.58 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.09.18 20.58 | U | 1 |
| | | | | | | | |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 08.09.18 20.58 | | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 08.09.18 20.58 | | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS02**
 Lab Sample Id: 594936-002

Matrix: Soil
 Date Collected: 08.03.18 11.25

Date Received: 08.07.18 15.00
 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3059563

Date Prep: 08.09.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 232 | 49.7 | mg/kg | 08.09.18 14.46 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059210

Date Prep: 08.07.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.08.18 00.13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.08.18 00.13 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.08.18 00.13 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.08.18 00.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-135 | 08.08.18 00.13 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 08.08.18 00.13 | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS02**
 Lab Sample Id: 594936-002

Matrix: Soil
 Date Collected: 08.03.18 11.25

Date Received: 08.07.18 15.00
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.10.18 12.00

Basis: Wet Weight

Seq Number: 3059755

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.10.18 19.00 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.10.18 19.00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.10.18 19.00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.10.18 19.00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.10.18 19.00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.10.18 19.00 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.10.18 19.00 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 08.10.18 19.00 | | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 08.10.18 19.00 | | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW01**
 Lab Sample Id: 594936-003

Matrix: Soil
 Date Collected: 08.03.18 11.50

Date Received: 08.07.18 15.00
 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3059563

Date Prep: 08.09.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 6.82 | 4.97 | mg/kg | 08.09.18 15.06 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059210

Date Prep: 08.07.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.08.18 00.33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.08.18 00.33 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.08.18 00.33 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.08.18 00.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.08.18 00.33 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-135 | 08.08.18 00.33 | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW01**
 Lab Sample Id: 594936-003

Matrix: Soil
 Date Collected: 08.03.18 11.50

Date Received: 08.07.18 15.00
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.10.18 12.00

Basis: Wet Weight

Seq Number: 3059755

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 08.10.18 23.10 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 08.10.18 23.10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 08.10.18 23.10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 08.10.18 23.10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 08.10.18 23.10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 08.10.18 23.10 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 08.10.18 23.10 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 08.10.18 23.10 | | |
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 08.10.18 23.10 | | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS03**
 Lab Sample Id: 594936-004

Matrix: Soil
 Date Collected: 08.03.18 12.10

Date Received: 08.07.18 15.00
 Sample Depth: 3.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3059563

Date Prep: 08.09.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 322 | 24.8 | mg/kg | 08.09.18 15.12 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059210

Date Prep: 08.07.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.08.18 00.53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.08.18 00.53 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.08.18 00.53 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.08.18 00.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-135 | 08.08.18 00.53 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 08.08.18 00.53 | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS03**
 Lab Sample Id: 594936-004

Matrix: Soil
 Date Collected: 08.03.18 12.10

Date Received: 08.07.18 15.00
 Sample Depth: 3.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3059755

Date Prep: 08.10.18 12.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.10.18 23.31 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.10.18 23.31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.10.18 23.31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.10.18 23.31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.10.18 23.31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.10.18 23.31 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.10.18 23.31 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 08.10.18 23.31 | | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 08.10.18 23.31 | | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW02**
 Lab Sample Id: 594936-005

Matrix: Soil
 Date Collected: 08.03.18 13.40

Date Received: 08.07.18 15.00
 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3059563

Date Prep: 08.09.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 493 | 4.97 | mg/kg | 08.09.18 15.19 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059210

Date Prep: 08.07.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.08.18 01.12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.08.18 01.12 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.08.18 01.12 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.08.18 01.12 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-135 | 08.08.18 01.12 | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-135 | 08.08.18 01.12 | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW02**
 Lab Sample Id: 594936-005

Matrix: Soil
 Date Collected: 08.03.18 13.40

Date Received: 08.07.18 15.00
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3059755

Date Prep: 08.10.18 12.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.10.18 19.41 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.10.18 19.41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.10.18 19.41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 08.10.18 19.41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.10.18 19.41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.10.18 19.41 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.10.18 19.41 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 08.10.18 19.41 | | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 08.10.18 19.41 | | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW03**
 Lab Sample Id: 594936-006

Matrix: Soil
 Date Collected: 08.03.18 15.10

Date Received: 08.07.18 15.00
 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3059563

Date Prep: 08.09.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 307 | 4.96 | mg/kg | 08.09.18 15.26 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059368

Date Prep: 08.08.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.08.18 15.32 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 182 | 15.0 | mg/kg | 08.08.18 15.32 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.08.18 15.32 | U | 1 |
| Total TPH | PHC635 | 182 | 15.0 | mg/kg | 08.08.18 15.32 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.08.18 15.32 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-135 | 08.08.18 15.32 | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW03**
 Lab Sample Id: 594936-006

Matrix: Soil
 Date Collected: 08.03.18 15.10

Date Received: 08.07.18 15.00
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3059755

Date Prep: 08.10.18 12.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.10.18 20.02 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.10.18 20.02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.10.18 20.02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 08.10.18 20.02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.10.18 20.02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.10.18 20.02 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.10.18 20.02 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 08.10.18 20.02 | | |
| 4-Bromofluorobenzene | 460-00-4 | 95 | % | 70-130 | 08.10.18 20.02 | | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW04**
 Lab Sample Id: 594936-007

Matrix: Soil
 Date Collected: 08.03.18 15.30

Date Received: 08.07.18 15.00
 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3059563

Date Prep: 08.09.18 08.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 16.2 | 4.97 | mg/kg | 08.09.18 15.32 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059368

Date Prep: 08.08.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.08.18 16.30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.08.18 16.30 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.08.18 16.30 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.08.18 16.30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-135 | 08.08.18 16.30 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-135 | 08.08.18 16.30 | |



Certificate of Analytical Results 594936

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW04**
 Lab Sample Id: 594936-007

Matrix: Soil
 Date Collected: 08.03.18 15.30

Date Received: 08.07.18 15.00
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.10.18 12.00

Basis: Wet Weight

Seq Number: 3059755

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.10.18 20.23 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.10.18 20.23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.10.18 20.23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.10.18 20.23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.10.18 20.23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.10.18 20.23 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.10.18 20.23 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 08.10.18 20.23 | | |
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 08.10.18 20.23 | | |



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059563

MB Sample Id: 7660043-1-BLK

Matrix: Solid

LCS Sample Id: 7660043-1-BKS

Prep Method: E300P

Date Prep: 08.09.18

LCSD Sample Id: 7660043-1-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 | 250 | 100 | 90-110 | 1 | 20 | mg/kg | 08.09.18 11:04 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059563

Parent Sample Id: 594750-002

Matrix: Soil

MS Sample Id: 594750-002 S

Prep Method: E300P

Date Prep: 08.09.18

MSD Sample Id: 594750-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 107 | 248 | 369 | 106 | 370 | 106 | 90-110 | 0 | 20 | mg/kg | 08.09.18 14:26 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059563

Parent Sample Id: 594936-001

Matrix: Soil

MS Sample Id: 594936-001 S

Prep Method: E300P

Date Prep: 08.09.18

MSD Sample Id: 594936-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | <4.97 | 249 | 273 | 110 | 273 | 110 | 90-110 | 0 | 20 | mg/kg | 08.09.18 12:52 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059210

MB Sample Id: 7659952-1-BLK

Matrix: Solid

LCS Sample Id: 7659952-1-BKS

Prep Method: TX1005P

Date Prep: 08.07.18

LCSD Sample Id: 7659952-1-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 | 1020 | 102 | 930 | 93 | 70-135 | 9 | 20 | mg/kg | 08.07.18 17:04 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1070 | 107 | 969 | 97 | 70-135 | 10 | 20 | mg/kg | 08.07.18 17:04 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 94 | | 129 | | 119 | | 70-135 | % | 08.07.18 17:04 |
| o-Terphenyl | 101 | | 116 | | 108 | | 70-135 | % | 08.07.18 17:04 |

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



LT Environmental, Inc.

Horned Toad 36 State #2H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059368

MB Sample Id: 7660053-1-BLK

Matrix: Solid

LCS Sample Id: 7660053-1-BKS

Prep Method: TX1005P

Date Prep: 08.08.18

LCSD Sample Id: 7660053-1-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 | 887 | 89 | 907 | 91 | 70-135 | 2 | 20 | mg/kg | 08.08.18 14:52 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 936 | 94 | 956 | 96 | 70-135 | 2 | 20 | mg/kg | 08.08.18 14:52 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 88 | | 122 | | 127 | | 70-135 | % | 08.08.18 14:52 |
| o-Terphenyl | 92 | | 97 | | 97 | | 70-135 | % | 08.08.18 14:52 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059210

Parent Sample Id: 594846-001

Matrix: Soil

MS Sample Id: 594846-001 S

Prep Method: TX1005P

Date Prep: 08.07.18

MSD Sample Id: 594846-001 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 | 914 | 91 | 961 | 96 | 70-135 | 5 | 20 | mg/kg | 08.07.18 18:02 | |
| Diesel Range Organics (DRO) | <15.0 | 999 | 967 | 97 | 1020 | 102 | 70-135 | 5 | 20 | mg/kg | 08.07.18 18:02 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 124 | | 129 | | 70-135 | % | 08.07.18 18:02 |
| o-Terphenyl | 99 | | 97 | | 70-135 | % | 08.07.18 18:02 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059368

Parent Sample Id: 594936-006

Matrix: Soil

MS Sample Id: 594936-006 S

Prep Method: TX1005P

Date Prep: 08.08.18

MSD Sample Id: 594936-006 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) | <15.0 | 999 | 864 | 86 | 906 | 91 | 70-135 | 5 | 20 | mg/kg | 08.08.18 15:51 | |
| Diesel Range Organics (DRO) | 182 | 999 | 1100 | 92 | 1210 | 103 | 70-135 | 10 | 20 | mg/kg | 08.08.18 15:51 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 113 | | 117 | | 70-135 | % | 08.08.18 15:51 |
| o-Terphenyl | 102 | | 104 | | 70-135 | % | 08.08.18 15:51 |

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3059525

MB Sample Id: 7660129-1-BLK

Matrix: Solid

LCS Sample Id: 7660129-1-BKS

Prep Method: SW5030B

Date Prep: 08.09.18

LCSD Sample Id: 7660129-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00202 | 0.101 | 0.110 | 109 | 0.117 | 117 | 70-130 | 6 | 35 | mg/kg | 08.09.18 11:58 | |
| Toluene | <0.00202 | 0.101 | 0.102 | 101 | 0.110 | 110 | 70-130 | 8 | 35 | mg/kg | 08.09.18 11:58 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.109 | 108 | 0.117 | 117 | 70-130 | 7 | 35 | mg/kg | 08.09.18 11:58 | |
| m,p-Xylenes | <0.00403 | 0.202 | 0.235 | 116 | 0.248 | 124 | 70-130 | 5 | 35 | mg/kg | 08.09.18 11:58 | |
| o-Xylene | <0.00202 | 0.101 | 0.117 | 116 | 0.116 | 116 | 70-130 | 1 | 35 | mg/kg | 08.09.18 11:58 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 109 | | 113 | | 116 | | 70-130 | % | 08.09.18 11:58 |
| 4-Bromofluorobenzene | 97 | | 106 | | 106 | | 70-130 | % | 08.09.18 11:58 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3059755

MB Sample Id: 7660225-1-BLK

Matrix: Solid

LCS Sample Id: 7660225-1-BKS

Prep Method: SW5030B

Date Prep: 08.10.18

LCSD Sample Id: 7660225-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00201 | 0.100 | 0.101 | 101 | 0.0924 | 91 | 70-130 | 9 | 35 | mg/kg | 08.10.18 08:18 | |
| Toluene | <0.00201 | 0.100 | 0.102 | 102 | 0.0938 | 93 | 70-130 | 8 | 35 | mg/kg | 08.10.18 08:18 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.112 | 112 | 0.103 | 102 | 70-130 | 8 | 35 | mg/kg | 08.10.18 08:18 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.230 | 114 | 0.210 | 104 | 70-130 | 9 | 35 | mg/kg | 08.10.18 08:18 | |
| o-Xylene | <0.00201 | 0.100 | 0.109 | 109 | 0.101 | 100 | 70-130 | 8 | 35 | mg/kg | 08.10.18 08:18 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 107 | | 125 | | 118 | | 70-130 | % | 08.10.18 08:18 |
| 4-Bromofluorobenzene | 105 | | 115 | | 114 | | 70-130 | % | 08.10.18 08:18 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3059525

Parent Sample Id: 594721-020

Matrix: Soil

MS Sample Id: 594721-020 S

Prep Method: SW5030B

Date Prep: 08.09.18

MSD Sample Id: 594721-020 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00199 | 0.0996 | 0.0829 | 83 | 0.0785 | 79 | 70-130 | 5 | 35 | mg/kg | 08.09.18 12:40 | |
| Toluene | <0.00199 | 0.0996 | 0.0764 | 77 | 0.0711 | 71 | 70-130 | 7 | 35 | mg/kg | 08.09.18 12:40 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0804 | 81 | 0.0768 | 77 | 70-130 | 5 | 35 | mg/kg | 08.09.18 12:40 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.173 | 87 | 0.166 | 83 | 70-130 | 4 | 35 | mg/kg | 08.09.18 12:40 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0838 | 84 | 0.0803 | 80 | 70-130 | 4 | 35 | mg/kg | 08.09.18 12:40 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 126 | | 124 | | 70-130 | % | 08.09.18 12:40 |
| 4-Bromofluorobenzene | 108 | | 112 | | 70-130 | % | 08.09.18 12:40 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3059755

Parent Sample Id: 594846-001

Matrix: Soil

MS Sample Id: 594846-001 S

Prep Method: SW5030B

Date Prep: 08.10.18

MSD Sample Id: 594846-001 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 | 0.0628 | 63 | 0.0870 | 87 | 70-130 | 32 | 35 | mg/kg | 08.10.18 09:41 | X |
| Toluene | <0.00198 | 0.0992 | 0.0631 | 64 | 0.0860 | 86 | 70-130 | 31 | 35 | mg/kg | 08.10.18 09:41 | X |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0650 | 66 | 0.0888 | 89 | 70-130 | 31 | 35 | mg/kg | 08.10.18 09:41 | X |
| m,p-Xylenes | <0.00397 | 0.198 | 0.131 | 66 | 0.179 | 90 | 70-130 | 31 | 35 | mg/kg | 08.10.18 09:41 | X |
| o-Xylene | <0.00198 | 0.0992 | 0.0617 | 62 | 0.0867 | 87 | 70-130 | 34 | 35 | mg/kg | 08.10.18 09:41 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 126 | | 116 | | 70-130 | % | 08.10.18 09:41 |
| 4-Bromofluorobenzene | 107 | | 109 | | 70-130 | % | 08.10.18 09:41 |

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



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

CHAIN OF CUSTODY

Page 1 of 1

[illegible]

| | | |
|-------------------------------|--|-------------------------|
| ORIGIN ID:MAFA (806) 794-1296 | | SHIP DATE: 06AUG18 |
| XENCO | | ACTWGT: 25.00 LB |
| 1211 W. FLORIDA AVE | | CAD: 101813706 NET 4040 |
| MIDLAND, TX 79701 | | DIMS: 18x17x11 IN |
| UNITED STATES US | | BILL RECIPIENT |
| TO XENCO | | |
| XENCO | | |
| 1211 W. FLORIDA AVE | | |
| MIDLAND TX 79701 | | |
| REF: (806) 794-1296 | | |
| INV: (806) 794-1296 | | |
| PO: DEPT | | |
| 552J11/3309/DCA5 | | |

| | |
|---------------------|--------------------|
| TRK# 7729 0934 2391 | TUE - 07 AUG 3:00P |
| 0201 | STANDARD OVERNIGHT |
| 41 MAFA | 79701 |
| TX-US | LBB |



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08/07/2018 03:00:00 PM

Work Order #: 594936

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | 3.1 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08/07/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/07/2018

Analytical Report 595405

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2H

16-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



16-AUG-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **595405**

Horned Toad 36 State #2H

Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595405. 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. 595405 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 595405****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW05 | S | 08-06-18 11:50 | 3 ft | 595405-001 |
| SW06 | S | 08-06-18 12:15 | 3 ft | 595405-002 |
| FS04 | S | 08-06-18 14:50 | 4 ft | 595405-003 |
| SW07 | S | 08-06-18 16:00 | 3 ft | 595405-004 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Horned Toad 36 State #2H

Project ID:

Work Order Number(s): 595405

Report Date: 16-AUG-18

Date Received: 08/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3060212 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 595405

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H



Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Fri Aug-10-18 11:50 am

Report Date: 16-AUG-18

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 595405-001 | 595405-002 | 595405-003 | 595405-004 | | |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|--|--|
| | <i>Field Id:</i> | SW05 | SW06 | FS04 | SW07 | | |
| | <i>Depth:</i> | 3- ft | 3- ft | 4- ft | 3- ft | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | | |
| | <i>Sampled:</i> | Aug-06-18 11:50 | Aug-06-18 12:15 | Aug-06-18 14:50 | Aug-06-18 16:00 | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Aug-15-18 16:30 | Aug-15-18 16:30 | Aug-15-18 16:30 | Aug-15-18 16:30 | | |
| | <i>Analyzed:</i> | Aug-16-18 10:47 | Aug-16-18 10:27 | Aug-16-18 11:08 | Aug-16-18 11:29 | | |
| | <i>Units/RL:</i> | 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 | <0.00202 0.00202 | | |
| Toluene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | | |
| Ethylbenzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | | |
| m,p-Xylenes | | <0.00398 0.00398 | <0.00399 0.00399 | <0.00402 0.00402 | <0.00403 0.00403 | | |
| o-Xylene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | | |
| Total Xylenes | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | | |
| Total BTEX | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00202 0.00202 | | |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | Aug-13-18 10:00 | Aug-13-18 10:00 | Aug-13-18 10:00 | Aug-13-18 10:00 | | |
| | <i>Analyzed:</i> | Aug-13-18 13:07 | Aug-13-18 13:12 | Aug-13-18 13:29 | Aug-13-18 13:34 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Chloride | | 77.6 10.0 | 18.9 1.00 | 39.5 5.00 | 32.8 1.00 | | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Aug-10-18 13:00 | Aug-10-18 13:00 | Aug-10-18 13:00 | Aug-10-18 13:00 | | |
| | <i>Analyzed:</i> | Aug-10-18 19:44 | Aug-10-18 20:04 | Aug-10-18 20:24 | Aug-10-18 20:43 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | 16.3 15.0 | <15.0 15.0 | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | 16.3 15.0 | <15.0 15.0 | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW05**
 Lab Sample Id: 595405-001

Matrix: Soil
 Date Collected: 08.06.18 11.50

Date Received: 08.10.18 11.50
 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 77.6 | 10.0 | mg/kg | 08.13.18 13.07 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.10.18 19.44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.10.18 19.44 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.10.18 19.44 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.10.18 19.44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.10.18 19.44 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-135 | 08.10.18 19.44 | |



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW05**
 Lab Sample Id: 595405-001

Matrix: Soil
 Date Collected: 08.06.18 11.50

Date Received: 08.10.18 11.50
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3060212

Date Prep: 08.15.18 16.30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.16.18 10.47 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.16.18 10.47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.16.18 10.47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.16.18 10.47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.16.18 10.47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.16.18 10.47 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.16.18 10.47 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 08.16.18 10.47 | | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 08.16.18 10.47 | | |



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW06**
 Lab Sample Id: 595405-002

Matrix: Soil
 Date Collected: 08.06.18 12.15

Date Received: 08.10.18 11.50
 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 18.9 | 1.00 | mg/kg | 08.13.18 13.12 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.10.18 20.04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.10.18 20.04 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.10.18 20.04 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.10.18 20.04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-135 | 08.10.18 20.04 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 08.10.18 20.04 | |



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW06**
 Lab Sample Id: 595405-002

Matrix: Soil
 Date Collected: 08.06.18 12.15

Date Received: 08.10.18 11.50
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.15.18 16.30

Basis: Wet Weight

Seq Number: 3060212

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.16.18 10.27 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.16.18 10.27 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.16.18 10.27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 08.16.18 10.27 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.16.18 10.27 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.16.18 10.27 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.16.18 10.27 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 08.16.18 10.27 | | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 08.16.18 10.27 | | |



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS04**
 Lab Sample Id: 595405-003

Matrix: Soil
 Date Collected: 08.06.18 14.50

Date Received: 08.10.18 11.50
 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 39.5 | 5.00 | mg/kg | 08.13.18 13.29 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.10.18 20.24 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 16.3 | 15.0 | mg/kg | 08.10.18 20.24 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.10.18 20.24 | U | 1 |
| Total TPH | PHC635 | 16.3 | 15.0 | mg/kg | 08.10.18 20.24 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.10.18 20.24 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-135 | 08.10.18 20.24 | |



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS04**
 Lab Sample Id: 595405-003

Matrix: Soil
 Date Collected: 08.06.18 14.50

Date Received: 08.10.18 11.50
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.15.18 16.30

Basis: Wet Weight

Seq Number: 3060212

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.16.18 11.08 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.16.18 11.08 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.16.18 11.08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.16.18 11.08 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.16.18 11.08 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.16.18 11.08 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.16.18 11.08 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 08.16.18 11.08 | | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 08.16.18 11.08 | | |



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW07**
Lab Sample Id: 595405-004

Matrix: Soil
Date Collected: 08.06.18 16.00

Date Received: 08.10.18 11.50
Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 32.8 | 1.00 | mg/kg | 08.13.18 13.34 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.10.18 20.43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.10.18 20.43 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.10.18 20.43 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.10.18 20.43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-135 | 08.10.18 20.43 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 08.10.18 20.43 | |



Certificate of Analytical Results 595405

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW07**
 Lab Sample Id: 595405-004

Matrix: Soil
 Date Collected: 08.06.18 16.00

Date Received: 08.10.18 11.50
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.15.18 16.30

Basis: Wet Weight

Seq Number: 3060212

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 08.16.18 11.29 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 08.16.18 11.29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 08.16.18 11.29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 08.16.18 11.29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 08.16.18 11.29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 08.16.18 11.29 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 08.16.18 11.29 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 08.16.18 11.29 | | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 08.16.18 11.29 | | |



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059874

MB Sample Id: 7660291-1-BLK

Matrix: Solid

LCS Sample Id: 7660291-1-BKS

Prep Method: E300P

Date Prep: 08.13.18

LCSD Sample Id: 7660291-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <1.00 | 50.0 | 50.2 | 100 | 50.2 | 100 | 90-110 | 0 | 20 | mg/kg | 08.13.18 12:23 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059874

Parent Sample Id: 595234-002

Matrix: Soil

MS Sample Id: 595234-002 S

Prep Method: E300P

Date Prep: 08.13.18

MSD Sample Id: 595234-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | <1.00 | 50.0 | 49.6 | 99 | 49.5 | 99 | 90-110 | 0 | 20 | mg/kg | 08.13.18 12:45 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059874

Parent Sample Id: 595406-004

Matrix: Soil

MS Sample Id: 595406-004 S

Prep Method: E300P

Date Prep: 08.13.18

MSD Sample Id: 595406-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 40.5 | 50.0 | 89.1 | 97 | 89.3 | 98 | 90-110 | 0 | 20 | mg/kg | 08.13.18 14:01 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059701

MB Sample Id: 7660204-1-BLK

Matrix: Solid

LCS Sample Id: 7660204-1-BKS

Prep Method: TX1005P

Date Prep: 08.10.18

LCSD Sample Id: 7660204-1-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 | 898 | 90 | 877 | 88 | 70-135 | 2 | 20 | mg/kg | 08.10.18 14:32 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 948 | 95 | 1030 | 103 | 70-135 | 8 | 20 | mg/kg | 08.10.18 14:32 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 88 | | 124 | | 116 | | 70-135 | % | 08.10.18 14:32 |
| o-Terphenyl | 92 | | 104 | | 103 | | 70-135 | % | 08.10.18 14:32 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059701

Parent Sample Id: 595257-021

Matrix: Soil

MS Sample Id: 595257-021 S

Prep Method: TX1005P

Date Prep: 08.10.18

MSD Sample Id: 595257-021 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 | 877 | 88 | 890 | 89 | 70-135 | 1 | 20 | mg/kg | 08.10.18 15:30 | |
| Diesel Range Organics (DRO) | <15.0 | 999 | 911 | 91 | 924 | 92 | 70-135 | 1 | 20 | mg/kg | 08.10.18 15:30 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 129 | | 126 | | 70-135 | % | 08.10.18 15:30 |
| o-Terphenyl | 106 | | 107 | | 70-135 | % | 08.10.18 15:30 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060212

MB Sample Id: 7660521-1-BLK

Matrix: Solid

LCS Sample Id: 7660521-1-BKS

Prep Method: SW5030B

Date Prep: 08.15.18

LCSD Sample Id: 7660521-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00201 | 0.100 | 0.0965 | 97 | 0.0964 | 95 | 70-130 | 0 | 35 | mg/kg | 08.16.18 03:12 | |
| Toluene | <0.00201 | 0.100 | 0.0911 | 91 | 0.0901 | 89 | 70-130 | 1 | 35 | mg/kg | 08.16.18 03:12 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.102 | 102 | 0.101 | 100 | 70-130 | 1 | 35 | mg/kg | 08.16.18 03:12 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.212 | 105 | 0.212 | 105 | 70-130 | 0 | 35 | mg/kg | 08.16.18 03:12 | |
| o-Xylene | <0.00201 | 0.100 | 0.103 | 103 | 0.103 | 102 | 70-130 | 0 | 35 | mg/kg | 08.16.18 03:12 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 103 | | 124 | | 122 | | 70-130 | % | 08.16.18 03:12 |
| 4-Bromofluorobenzene | 98 | | 107 | | 102 | | 70-130 | % | 08.16.18 03:12 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060212

Parent Sample Id: 595884-001

Matrix: Soil

MS Sample Id: 595884-001 S

Prep Method: SW5030B

Date Prep: 08.15.18

MSD Sample Id: 595884-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | 0.00397 | 0.0996 | 0.0547 | 51 | 0.0462 | 42 | 70-130 | 17 | 35 | mg/kg | 08.16.18 03:54 | X |
| Toluene | 0.110 | 0.0996 | 0.146 | 36 | 0.124 | 14 | 70-130 | 16 | 35 | mg/kg | 08.16.18 03:54 | X |
| Ethylbenzene | 0.00720 | 0.0996 | 0.0391 | 32 | 0.0237 | 17 | 70-130 | 49 | 35 | mg/kg | 08.16.18 03:54 | XF |
| m,p-Xylenes | 0.0671 | 0.199 | 0.144 | 39 | 0.102 | 17 | 70-130 | 34 | 35 | mg/kg | 08.16.18 03:54 | X |
| o-Xylene | 0.0224 | 0.0996 | 0.0542 | 32 | 0.0345 | 12 | 70-130 | 44 | 35 | mg/kg | 08.16.18 03:54 | XF |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 78 | | 93 | | 70-130 | % | 08.16.18 03:54 |
| 4-Bromofluorobenzene | 103 | | 120 | | 70-130 | % | 08.16.18 03:54 |

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



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 of 1

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

| Client / Reporting Information | | | | Project Information | | | | Analytical Information | | | | Matrix Codes | | | |
|---|--------------|------|--------|---|--------------|-----|-----------------|---|-------|------|--------|--|------|----------------|----------------|
| Company Name / Branch: LT Environmental, Inc. - Permian Office | | | | Project Name/Number: Brown Toad 36 State #24 | | | | | | | | | | | |
| Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 | | | | Project Location: Culbuck, NM | | | | | | | | | | | |
| Email: Abaker@ltenv.com | | | | Invoice To: XTO Energy - Kyle Little | | | | | | | | | | | |
| Project Contact: Adrian Baker | | | | PO Number: 2RRP-4850 | | | | | | | | | | | |
| Samplers Name: Ben Baker | | | | | | | | | | | | | | | |
| Field ID / Point of Collection | | | | Collection | | | | Number of preserved bottles | | | | | | | |
| No. | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MeOH | NONE | Field Comments | |
| 1 | SW05 | 3' | 8/6/18 | 1150 | 5 | 1 | | | | | | | | X | BTEX EPA 8020 |
| 2 | SW06 | 3' | 12/15 | 1 | | | | | | | | | | X | TPH EPA 8015 |
| 3 | ES04 | 4' | 1450 | 1 | | | | | | | | | | X | Chloride 300.1 |
| 4 | SW07 | 3' | 1600 | 1 | | | | | | | | | | X | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| Turnaround Time (Business days) | | | | Data Deliverable Information | | | | Notes | | | | | | | |
| <input type="checkbox"/> Same Day TAT | | | | <input checked="" type="checkbox"/> 5 Day TAT | | | | <input type="checkbox"/> Level II Std QC | | | | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) | | | |
| <input type="checkbox"/> Next Day EMERGENCY | | | | <input type="checkbox"/> 7 Day TAT | | | | <input type="checkbox"/> Level III Std QC + Forms | | | | <input type="checkbox"/> TRRP Level IV | | | |
| <input type="checkbox"/> 2 Day EMERGENCY | | | | <input type="checkbox"/> Contract TAT | | | | <input type="checkbox"/> Level 3 (CLP Forms) | | | | <input type="checkbox"/> UST / RG 411 | | | |
| <input type="checkbox"/> 3 Day EMERGENCY | | | | | | | | <input type="checkbox"/> TRRP Checklist | | | | | | | |
| TAT Starts Day received by Lab, if received by 5:00 pm | | | | | | | | | | | | | | | |
| Relinquished by Sampler: | | | | SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY | | | | FED-EX / UPS: Tracking # | | | | | | | |
| Date Time: 8/6/18 17:30 | | | | Received By: [Signature] | | | | Date Time: 8/9/18 15:30 | | | | Received By: [Signature] | | | |
| Relinquished by: | | | | Date Time: 8/9/18 17:30 | | | | Received By: [Signature] | | | | Date Time: 8/10/18 1150 | | | |
| Relinquished by: | | | | Date Time: | | | | Received By: | | | | Custody Seal # | | | |
| 5 | | | | Date Time: | | | | Received By: | | | | Preserved where applicable | | | |
| Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract. | | | | | | | | | | | | | | | |

| | | |
|---|--|---|
| ORIGIN ID:MAFA (806) 794-1296 XENCO XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US | | SHIP DATE: 09AUG18 ACTWGT: 23.00 LB CAD: 101813706/NET4040 DIMS: 26x14x14 IN BILL RECIPIENT |
| TO XENCO XENCO 1211 W. FLORIDA AVE MIDLAND TX 79701 (806) 794-1296 INV REF: | | |
| DEPT: | | |
|   | | |
| TRK# 7729 4212 7524 0201 | FRI - 10 AUG 3:00P STANDARD OVERNIGHT | 41 MAFA TX-US LBB 79701 |
|  | | |

552J1/3309/DCA5

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Client: LT Environmental, Inc.

Date/ Time Received: 08/10/2018 11:50:00 AM

Work Order #: 595405

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .2 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | No |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 08/10/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/10/2018

Analytical Report 595406

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2H

20-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



20-AUG-18

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

Reference: XENCO Report No(s): **595406**
Horned Toad 36 State #2H
Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595406. 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. 595406 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,

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

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 595406****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| FS05 | S | 08-07-18 11:00 | 4 ft | 595406-001 |
| FS06 | S | 08-07-18 12:00 | 3.5 ft | 595406-002 |
| SW08 | S | 08-07-18 14:10 | 2.5 ft | 595406-003 |
| FS07 | S | 08-07-18 14:30 | 3.5 ft | 595406-004 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Horned Toad 36 State #2H

Project ID:
Work Order Number(s): 595406

Report Date: 20-AUG-18
Date Received: 08/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3060429 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 595406

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H



Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Fri Aug-10-18 12:17 pm

Report Date: 20-AUG-18

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 595406-001 | 595406-002 | 595406-003 | 595406-004 | | |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|--|--|
| | <i>Field Id:</i> | FS05 | FS06 | SW08 | FS07 | | |
| | <i>Depth:</i> | 4- ft | 3.5- ft | 2.5- ft | 3.5- ft | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | | |
| | <i>Sampled:</i> | Aug-07-18 11:00 | Aug-07-18 12:00 | Aug-07-18 14:10 | Aug-07-18 14:30 | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Aug-17-18 08:15 | Aug-17-18 08:15 | Aug-17-18 08:15 | Aug-17-18 08:15 | | |
| | <i>Analyzed:</i> | Aug-17-18 17:09 | Aug-17-18 21:02 | Aug-17-18 18:15 | Aug-17-18 18:35 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Benzene | | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00200 0.00200 | | |
| Toluene | | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00200 0.00200 | | |
| Ethylbenzene | | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00200 0.00200 | | |
| m,p-Xylenes | | <0.00402 0.00402 | <0.00402 0.00402 | <0.00398 0.00398 | <0.00399 0.00399 | | |
| o-Xylene | | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00200 0.00200 | | |
| Total Xylenes | | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00200 0.00200 | | |
| Total BTEX | | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00200 0.00200 | | |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | Aug-13-18 10:00 | Aug-13-18 10:00 | Aug-13-18 10:00 | Aug-13-18 10:00 | | |
| | <i>Analyzed:</i> | Aug-14-18 15:59 | Aug-13-18 13:45 | Aug-13-18 13:50 | Aug-13-18 13:56 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Chloride | | 12.6 1.00 | 59.3 10.0 | 12.4 1.00 | 40.5 1.00 | | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Aug-10-18 13:00 | Aug-10-18 13:00 | Aug-10-18 13:00 | Aug-10-18 13:00 | | |
| | <i>Analyzed:</i> | Aug-10-18 21:03 | Aug-10-18 21:23 | Aug-10-18 21:43 | Aug-10-18 22:02 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | | |
| Diesel Range Organics (DRO) | | 15.8 15.0 | 54.6 15.0 | <14.9 14.9 | 58.9 15.0 | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | | |
| Total TPH | | 15.8 15.0 | 54.6 15.0 | <14.9 14.9 | 58.9 15.0 | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 595406

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS05**
 Lab Sample Id: 595406-001

Matrix: Soil
 Date Collected: 08.07.18 11.00

Date Received: 08.10.18 12.17
 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 12.6 | 1.00 | mg/kg | 08.14.18 15.59 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.10.18 21.03 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 15.8 | 15.0 | mg/kg | 08.10.18 21.03 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.10.18 21.03 | U | 1 |
| Total TPH | PHC635 | 15.8 | 15.0 | mg/kg | 08.10.18 21.03 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.10.18 21.03 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-135 | 08.10.18 21.03 | |



Certificate of Analytical Results 595406

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS05**
 Lab Sample Id: 595406-001

Matrix: Soil
 Date Collected: 08.07.18 11.00

Date Received: 08.10.18 12.17
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.17.18 08.15

Basis: Wet Weight

Seq Number: 3060429

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.17.18 17.09 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.17.18 17.09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.17.18 17.09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.17.18 17.09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.17.18 17.09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.17.18 17.09 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.17.18 17.09 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 08.17.18 17.09 | | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 08.17.18 17.09 | | |



Certificate of Analytical Results 595406

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS06**
 Lab Sample Id: 595406-002

Matrix: Soil
 Date Collected: 08.07.18 12.00

Date Received: 08.10.18 12.17
 Sample Depth: 3.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 59.3 | 10.0 | mg/kg | 08.13.18 13.45 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.10.18 21.23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 54.6 | 15.0 | mg/kg | 08.10.18 21.23 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.10.18 21.23 | U | 1 |
| Total TPH | PHC635 | 54.6 | 15.0 | mg/kg | 08.10.18 21.23 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-135 | 08.10.18 21.23 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-135 | 08.10.18 21.23 | |



Certificate of Analytical Results 595406

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS06**
 Lab Sample Id: 595406-002

Matrix: Soil
 Date Collected: 08.07.18 12.00

Date Received: 08.10.18 12.17
 Sample Depth: 3.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.17.18 08.15

Basis: Wet Weight

Seq Number: 3060429

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.17.18 21.02 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.17.18 21.02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.17.18 21.02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.17.18 21.02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.17.18 21.02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.17.18 21.02 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.17.18 21.02 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 110 | % | 70-130 | 08.17.18 21.02 | | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 08.17.18 21.02 | | |



Certificate of Analytical Results 595406

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW08**
 Lab Sample Id: 595406-003

Matrix: Soil
 Date Collected: 08.07.18 14.10

Date Received: 08.10.18 12.17
 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 12.4 | 1.00 | mg/kg | 08.13.18 13.50 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 08.10.18 21.43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | mg/kg | 08.10.18 21.43 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 08.10.18 21.43 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | mg/kg | 08.10.18 21.43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-135 | 08.10.18 21.43 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-135 | 08.10.18 21.43 | |



Certificate of Analytical Results 595406

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW08**
 Lab Sample Id: 595406-003

Matrix: Soil
 Date Collected: 08.07.18 14.10

Date Received: 08.10.18 12.17
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.17.18 08.15

Basis: Wet Weight

Seq Number: 3060429

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.17.18 18.15 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.17.18 18.15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.17.18 18.15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.17.18 18.15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.17.18 18.15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.17.18 18.15 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.17.18 18.15 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 08.17.18 18.15 | | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 08.17.18 18.15 | | |



Certificate of Analytical Results 595406



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS07**
Lab Sample Id: 595406-004

Matrix: Soil
Date Collected: 08.07.18 14.30

Date Received: 08.10.18 12.17
Sample Depth: 3.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3059874

Date Prep: 08.13.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 40.5 | 1.00 | mg/kg | 08.13.18 13.56 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3059701

Date Prep: 08.10.18 13.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.10.18 22.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 58.9 | 15.0 | mg/kg | 08.10.18 22.02 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.10.18 22.02 | U | 1 |
| Total TPH | PHC635 | 58.9 | 15.0 | mg/kg | 08.10.18 22.02 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.10.18 22.02 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-135 | 08.10.18 22.02 | |



Certificate of Analytical Results 595406

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS07**
 Lab Sample Id: 595406-004

Matrix: Soil
 Date Collected: 08.07.18 14.30

Date Received: 08.10.18 12.17
 Sample Depth: 3.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.17.18 08.15

Basis: Wet Weight

Seq Number: 3060429

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.17.18 18.35 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.17.18 18.35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.17.18 18.35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 08.17.18 18.35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.17.18 18.35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.17.18 18.35 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.17.18 18.35 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 08.17.18 18.35 | | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 08.17.18 18.35 | | |



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** 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



LT Environmental, Inc.

Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059874

MB Sample Id: 7660291-1-BLK

Matrix: Solid

LCS Sample Id: 7660291-1-BKS

Prep Method: E300P

Date Prep: 08.13.18

LCSD Sample Id: 7660291-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <1.00 | 50.0 | 50.2 | 100 | 50.2 | 100 | 90-110 | 0 | 20 | mg/kg | 08.13.18 12:23 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059874

Parent Sample Id: 595234-002

Matrix: Soil

MS Sample Id: 595234-002 S

Prep Method: E300P

Date Prep: 08.13.18

MSD Sample Id: 595234-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | <1.00 | 50.0 | 49.6 | 99 | 49.5 | 99 | 90-110 | 0 | 20 | mg/kg | 08.13.18 12:45 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3059874

Parent Sample Id: 595406-004

Matrix: Soil

MS Sample Id: 595406-004 S

Prep Method: E300P

Date Prep: 08.13.18

MSD Sample Id: 595406-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 40.5 | 50.0 | 89.1 | 97 | 89.3 | 98 | 90-110 | 0 | 20 | mg/kg | 08.13.18 14:01 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059701

MB Sample Id: 7660204-1-BLK

Matrix: Solid

LCS Sample Id: 7660204-1-BKS

Prep Method: TX1005P

Date Prep: 08.10.18

LCSD Sample Id: 7660204-1-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 | 898 | 90 | 877 | 88 | 70-135 | 2 | 20 | mg/kg | 08.10.18 14:32 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 948 | 95 | 1030 | 103 | 70-135 | 8 | 20 | mg/kg | 08.10.18 14:32 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 88 | | 124 | | 116 | | 70-135 | % | 08.10.18 14:32 |
| o-Terphenyl | 92 | | 104 | | 103 | | 70-135 | % | 08.10.18 14:32 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



LT Environmental, Inc.

Horned Toad 36 State #2H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3059701

Parent Sample Id: 595257-021

Matrix: Soil

MS Sample Id: 595257-021 S

Prep Method: TX1005P

Date Prep: 08.10.18

MSD Sample Id: 595257-021 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 | 877 | 88 | 890 | 89 | 70-135 | 1 | 20 | mg/kg | 08.10.18 15:30 | |
| Diesel Range Organics (DRO) | <15.0 | 999 | 911 | 91 | 924 | 92 | 70-135 | 1 | 20 | mg/kg | 08.10.18 15:30 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 129 | | 126 | | 70-135 | % | 08.10.18 15:30 |
| o-Terphenyl | 106 | | 107 | | 70-135 | % | 08.10.18 15:30 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060429

MB Sample Id: 7660650-1-BLK

Matrix: Solid

LCS Sample Id: 7660650-1-BKS

Prep Method: SW5030B

Date Prep: 08.17.18

LCSD Sample Id: 7660650-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.0998 | 0.0989 | 99 | 0.0978 | 98 | 70-130 | 1 | 35 | mg/kg | 08.17.18 11:25 | |
| Toluene | <0.00200 | 0.0998 | 0.0973 | 97 | 0.0959 | 96 | 70-130 | 1 | 35 | mg/kg | 08.17.18 11:25 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.110 | 110 | 0.110 | 110 | 70-130 | 0 | 35 | mg/kg | 08.17.18 11:25 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.233 | 117 | 0.232 | 115 | 70-130 | 0 | 35 | mg/kg | 08.17.18 11:25 | |
| o-Xylene | <0.00200 | 0.0998 | 0.117 | 117 | 0.115 | 115 | 70-130 | 2 | 35 | mg/kg | 08.17.18 11:25 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 113 | | 127 | | 70-130 | % | 08.17.18 11:25 |
| 4-Bromofluorobenzene | 96 | | 117 | | 115 | | 70-130 | % | 08.17.18 11:25 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060429

Parent Sample Id: 594927-001

Matrix: Soil

MS Sample Id: 594927-001 S

Prep Method: SW5030B

Date Prep: 08.17.18

MSD Sample Id: 594927-001 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 | 0.0191 | 19 | 0.0336 | 34 | 70-130 | 55 | 35 | mg/kg | 08.17.18 12:07 | XF |
| Toluene | <0.00199 | 0.0996 | 0.0168 | 17 | 0.0299 | 30 | 70-130 | 56 | 35 | mg/kg | 08.17.18 12:07 | XF |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0137 | 14 | 0.0242 | 24 | 70-130 | 55 | 35 | mg/kg | 08.17.18 12:07 | XF |
| m,p-Xylenes | <0.00398 | 0.199 | 0.0294 | 15 | 0.0487 | 24 | 70-130 | 49 | 35 | mg/kg | 08.17.18 12:07 | XF |
| o-Xylene | <0.00199 | 0.0996 | 0.0131 | 13 | 0.0245 | 25 | 70-130 | 61 | 35 | mg/kg | 08.17.18 12:07 | XF |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 109 | | 122 | | 70-130 | % | 08.17.18 12:07 |
| 4-Bromofluorobenzene | 101 | | 96 | | 70-130 | % | 08.17.18 12:07 |

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



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

Midland, Texas (432-704-6251)

Phoenix, Arizona (480-355-0900)

CHAIN OF CUSTODY

Page 1 of 1

| | | | | | | | | | | | | | | | |
|---|--|--|--|---|--|--|--|--|--|--|--|---------------------|--|--|--|
| Client / Reporting Information | | | | Project Information | | | | Analytical Information | | | | Matrix Codes | | | |
| Company Name / Branch: LT Environmental, Inc. - Permian Office | | | | Project Name/Number: Horned Toad 36 S 12 in #214 | | | | | | | | | | | |
| Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 | | | | Project Location: Carlsbad, NM | | | | | | | | | | | |
| Email: Abaker@ltenv.com | | | | Phone No: (432) 704-5178 | | | | Invoice To: XTO Energy - Kyle Littell | | | | | | | |
| Project Contact: Adrian Baker | | | | PO Number: ZRP-4850 | | | | | | | | | | | |
| Sampler's Name B. Baker | | | | | | | | | | | | | | | |

| No. | Field ID / Point of Collection | Collection | | Number of preservatives bottles | | | | | | | | Field Comments | | | | | | | | | |
|-----|--------------------------------|--------------|------|---------------------------------|--------|--------------|-----|-----------------|------|-------|------|----------------|--------|------|------|--|--|--|--|--|--|
| | | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | | NaHSO4 | MEOH | NONE | | | | | | |
| 1 | | FS05 | 4' | 8/7/18 | 11:00 | 5 | 1 | | | | | | | | | | | | | | |
| 2 | | FS06 | 3.5' | | | 12:00 | | | | | | | | | | | | | | | |
| 3 | | SW08 | 2.5' | | | 14:10 | | | | | | | | | | | | | | | |
| 4 | | FS07 | 3.5' | | | 14:30 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|--|--|--|---|--|--|--|---|--|--|--|
| Turnaround Time (Business days) | | | | Data Deliverable Information | | | | Notes: | | | |
| <input type="checkbox"/> Same Day TAT <input checked="" type="checkbox"/> 5 Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input type="checkbox"/> 3 Day EMERGENCY | | | | <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> TRRP Checkist | | | | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> UST / RG 411 | | | |

| | | | | | | | |
|--|--|--|--|---|--|--|--|
| TAT Starts Day received by Lab, if received by 5:00 pm | | | | FED-EX / UPS Tracking # | | | |
| Relinquished by Sampler: <i>B. Baker</i> Relinquished by: <i>B. Baker</i> Relinquished by: <i>B. Baker</i> | | | | Date Time: 8/8/18 17:30 Received By: <i>Adrian Baker</i> Date Time: 8/14/18 15:30 Received By: <i>Adrian Baker</i> | | | |
| Date Time: 8/14/18 11:50 Received By: <i>Adrian Baker</i> | | | | Date Time: 8/14/18 11:50 Received By: <i>Adrian Baker</i> | | | |

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| On Ice | | | | Cooler Temp | | | | Thermo Corr. Factor | | | |
| Date Time: 8/14/18 11:50 Received By: <i>Adrian Baker</i> | | | | Date Time: 8/14/18 11:50 Received By: <i>Adrian Baker</i> | | | | Date Time: 8/14/18 11:50 Received By: <i>Adrian Baker</i> | | | |

| | |
|--|--|
| ORIGIN ID:MAFA (800) 794-1296 XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US | SHIP DATE: 09AUG18 ACTWGT: 23.00 LB CMT: 101813708NET4040 DIMS: 20x14x14 IN BILL RECIPIENT |
| TO XENCO XENCO 1211 W. FLORIDA AVE MIDLAND TX 79701 (800) 794-1296 REF: PO: DEPT: | |

| | |
|---|--|
| TRK# 7729 4212 7524 0201 41 MAFA TX-US LBB 79701 FRI - 10 AUG 3:00P STANDARD OVERNIGHT |   |
|---|--|

552J113309/DCA5

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Client: LT Environmental, Inc.

Date/ Time Received: 08/10/2018 12:17:58 PM

Work Order #: 595406

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .2 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | No |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 08/10/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/10/2018

Analytical Report 595898

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2H

12-NOV-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



12-NOV-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **595898**

Horned Toad 36 State #2H

Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595898. 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. 595898 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 595898****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| FS12 | S | 08-10-18 13:45 | 8.5 ft | 595898-001 |
| SW16 | S | 08-10-18 14:30 | 4 ft | 595898-002 |
| SW17 | S | 08-10-18 16:15 | 4 ft | 595898-003 |
| SW18 | S | 08-10-18 16:20 | 4 ft | 595898-004 |
| SW19 | S | 08-10-18 17:00 | 3 ft | 595898-005 |
| FS13 | S | 08-10-18 17:10 | 6 ft | 595898-006 |
| SW20 | S | 08-10-18 17:20 | 3 ft | 595898-007 |

**CASE NARRATIVE****Client Name: LT Environmental, Inc.****Project Name: Horned Toad 36 State #2H**Project ID:
Work Order Number(s): 595898Report Date: 12-NOV-18
Date Received: 08/15/2018

Sample receipt non conformances and comments:Per clients email request, corrected sample depth to 3' on sample 007. JKR 11/12/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3060904 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3060988 BTEX by EPA 8021B

Lab Sample ID 595898-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 595898-001.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3061150 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 595898

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H

Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Wed Aug-15-18 04:15 pm

Report Date: 12-NOV-18

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 595898-001 | 595898-002 | 595898-003 | 595898-004 | 595898-005 | 595898-006 |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | FS12 | SW16 | SW17 | SW18 | SW19 | FS13 |
| | <i>Depth:</i> | 8.5- ft | 4- ft | 4- ft | 4- ft | 3- ft | 6- ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Aug-10-18 13:45 | Aug-10-18 14:30 | Aug-10-18 16:15 | Aug-10-18 16:20 | Aug-10-18 17:00 | Aug-10-18 17:10 |
| BTEX by EPA 8021B | <i>Extracted:</i> | Aug-23-18 08:00 | Aug-22-18 15:00 | Aug-24-18 08:00 | Aug-24-18 08:00 | Aug-24-18 08:00 | Aug-24-18 08:00 |
| | <i>Analyzed:</i> | Aug-23-18 11:50 | Aug-22-18 23:22 | Aug-24-18 14:02 | Aug-24-18 14:23 | Aug-24-18 14:42 | Aug-24-18 15:02 |
| | <i>Units/RL:</i> | 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 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Toluene | | <0.00202 0.00202 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Ethylbenzene | | <0.00202 0.00202 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| m,p-Xylenes | | <0.00403 0.00403 | <0.00398 0.00398 | <0.00404 0.00404 | <0.00398 0.00398 | <0.00401 0.00401 | <0.00402 0.00402 |
| o-Xylene | | <0.00202 0.00202 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Total Xylenes | | <0.00202 0.00202 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Total BTEX | | <0.00202 0.00202 | <0.00199 0.00199 | <0.00202 0.00202 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 |
| | <i>Analyzed:</i> | Aug-16-18 16:37 | Aug-16-18 16:43 | Aug-16-18 16:48 | Aug-16-18 16:54 | Aug-16-18 17:05 | Aug-16-18 16:59 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 217 5.00 | 40.1 4.95 | 102 4.95 | 395 4.97 | 140 4.99 | 216 24.8 |
| TPH by SW8015 Mod | <i>Extracted:</i> | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 |
| | <i>Analyzed:</i> | Aug-16-18 12:16 | Aug-16-18 13:15 | Aug-16-18 13:34 | Aug-16-18 13:54 | Aug-16-18 14:14 | Aug-16-18 14:34 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | 16.3 15.0 |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | 16.3 15.0 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 595898

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H

Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Wed Aug-15-18 04:15 pm

Report Date: 12-NOV-18

Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-------------------|------------------|--|--|--|--|--|
| Analysis Requested | Lab Id: | 595898-007 | | | | | |
| | Field Id: | SW20 | | | | | |
| | Depth: | 3- ft | | | | | |
| | Matrix: | SOIL | | | | | |
| | Sampled: | Aug-10-18 17:20 | | | | | |
| BTEX by EPA 8021B | Extracted: | Aug-24-18 08:00 | | | | | |
| | Analyzed: | Aug-24-18 15:23 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Benzene | | <0.00198 0.00198 | | | | | |
| Toluene | | <0.00198 0.00198 | | | | | |
| Ethylbenzene | | <0.00198 0.00198 | | | | | |
| m,p-Xylenes | | <0.00397 0.00397 | | | | | |
| o-Xylene | | <0.00198 0.00198 | | | | | |
| Total Xylenes | | <0.00198 0.00198 | | | | | |
| Total BTEX | | <0.00198 0.00198 | | | | | |
| Inorganic Anions by EPA 300 | Extracted: | Aug-16-18 14:00 | | | | | |
| | Analyzed: | Aug-16-18 17:21 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Chloride | | 164 4.97 | | | | | |
| TPH by SW8015 Mod | Extracted: | Aug-16-18 09:00 | | | | | |
| | Analyzed: | Aug-16-18 14:53 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | | | | | |
| Diesel Range Organics (DRO) | | <15.0 15.0 | | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | | | | | |
| Total TPH | | <15.0 15.0 | | | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS12**
 Lab Sample Id: 595898-001

Matrix: Soil
 Date Collected: 08.10.18 13.45

Date Received: 08.15.18 16.15
 Sample Depth: 8.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 217 | 5.00 | mg/kg | 08.16.18 16.37 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 12.16 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 12.16 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 12.16 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 12.16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-135 | 08.16.18 12.16 | |
| o-Terphenyl | 84-15-1 | 94 | % | 70-135 | 08.16.18 12.16 | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS12**
 Lab Sample Id: 595898-001

Matrix: Soil
 Date Collected: 08.10.18 13.45

Date Received: 08.15.18 16.15
 Sample Depth: 8.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3060988

Date Prep: 08.23.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 08.23.18 11.50 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 08.23.18 11.50 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 08.23.18 11.50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 08.23.18 11.50 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 08.23.18 11.50 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 08.23.18 11.50 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 08.23.18 11.50 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 08.23.18 11.50 | | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 08.23.18 11.50 | | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW16**
 Lab Sample Id: 595898-002

Matrix: Soil
 Date Collected: 08.10.18 14.30

Date Received: 08.15.18 16.15
 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 40.1 | 4.95 | mg/kg | 08.16.18 16.43 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 13.15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 13.15 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 13.15 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 13.15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-135 | 08.16.18 13.15 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 08.16.18 13.15 | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW16**
 Lab Sample Id: 595898-002

Matrix: Soil
 Date Collected: 08.10.18 14.30

Date Received: 08.15.18 16.15
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3060904

Date Prep: 08.22.18 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.22.18 23.22 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.22.18 23.22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.22.18 23.22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.22.18 23.22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.22.18 23.22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.22.18 23.22 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.22.18 23.22 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 08.22.18 23.22 | | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 08.22.18 23.22 | | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW17**
 Lab Sample Id: 595898-003

Matrix: Soil
 Date Collected: 08.10.18 16.15

Date Received: 08.15.18 16.15
 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 102 | 4.95 | mg/kg | 08.16.18 16.48 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 08.16.18 13.34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | mg/kg | 08.16.18 13.34 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 08.16.18 13.34 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | mg/kg | 08.16.18 13.34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.16.18 13.34 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-135 | 08.16.18 13.34 | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW17**
 Lab Sample Id: 595898-003

Matrix: Soil
 Date Collected: 08.10.18 16.15

Date Received: 08.15.18 16.15
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3061150

Date Prep: 08.24.18 08.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 08.24.18 14.02 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 08.24.18 14.02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 08.24.18 14.02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 08.24.18 14.02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 08.24.18 14.02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 08.24.18 14.02 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 08.24.18 14.02 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 08.24.18 14.02 | | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 08.24.18 14.02 | | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW18**
 Lab Sample Id: 595898-004

Matrix: Soil
 Date Collected: 08.10.18 16.20

Date Received: 08.15.18 16.15
 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 395 | 4.97 | mg/kg | 08.16.18 16.54 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 13.54 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 13.54 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 13.54 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 13.54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-135 | 08.16.18 13.54 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-135 | 08.16.18 13.54 | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW18**
 Lab Sample Id: 595898-004

Matrix: Soil
 Date Collected: 08.10.18 16.20

Date Received: 08.15.18 16.15
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.24.18 08.00

Basis: Wet Weight

Seq Number: 3061150

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.24.18 14.23 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.24.18 14.23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.24.18 14.23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.24.18 14.23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.24.18 14.23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.24.18 14.23 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.24.18 14.23 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 08.24.18 14.23 | | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 08.24.18 14.23 | | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW19**
 Lab Sample Id: 595898-005

Matrix: Soil
 Date Collected: 08.10.18 17.00

Date Received: 08.15.18 16.15
 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 140 | 4.99 | mg/kg | 08.16.18 17.05 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 14.14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 14.14 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 14.14 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 14.14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.16.18 14.14 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 08.16.18 14.14 | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW19**
 Lab Sample Id: 595898-005

Matrix: Soil
 Date Collected: 08.10.18 17.00

Date Received: 08.15.18 16.15
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.24.18 08.00

Basis: Wet Weight

Seq Number: 3061150

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.24.18 14.42 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.24.18 14.42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.24.18 14.42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 08.24.18 14.42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.24.18 14.42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.24.18 14.42 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.24.18 14.42 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 08.24.18 14.42 | | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 08.24.18 14.42 | | |



Certificate of Analytical Results 595898



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS13**
Lab Sample Id: 595898-006

Matrix: Soil
Date Collected: 08.10.18 17.10

Date Received: 08.15.18 16.15
Sample Depth: 6 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 216 | 24.8 | mg/kg | 08.16.18 16.59 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 14.34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 16.3 | 15.0 | mg/kg | 08.16.18 14.34 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 14.34 | U | 1 |
| Total TPH | PHC635 | 16.3 | 15.0 | mg/kg | 08.16.18 14.34 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 08.16.18 14.34 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 08.16.18 14.34 | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS13**
 Lab Sample Id: 595898-006

Matrix: Soil
 Date Collected: 08.10.18 17.10

Date Received: 08.15.18 16.15
 Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.24.18 08.00

Basis: Wet Weight

Seq Number: 3061150

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.24.18 15.02 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.24.18 15.02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.24.18 15.02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.24.18 15.02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.24.18 15.02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.24.18 15.02 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.24.18 15.02 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 08.24.18 15.02 | | |
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 08.24.18 15.02 | | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW20**
 Lab Sample Id: 595898-007

Matrix: Soil
 Date Collected: 08.10.18 17.20

Date Received: 08.15.18 16.15
 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 164 | 4.97 | mg/kg | 08.16.18 17.21 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 14.53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 14.53 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 14.53 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 14.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.16.18 14.53 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-135 | 08.16.18 14.53 | |



Certificate of Analytical Results 595898

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW20**
 Lab Sample Id: 595898-007

Matrix: Soil
 Date Collected: 08.10.18 17.20

Date Received: 08.15.18 16.15
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.24.18 08.00

Basis: Wet Weight

Seq Number: 3061150

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 08.24.18 15.23 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 08.24.18 15.23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 08.24.18 15.23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 08.24.18 15.23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 08.24.18 15.23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 08.24.18 15.23 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 08.24.18 15.23 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 08.24.18 15.23 | | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 08.24.18 15.23 | | |



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** 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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

MB Sample Id: 7660558-1-BLK

Matrix: Solid

LCS Sample Id: 7660558-1-BKS

Prep Method: E300P

Date Prep: 08.16.18

LCSD Sample Id: 7660558-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <4.99 | 250 | 247 | 99 | 246 | 98 | 90-110 | 0 | 20 | mg/kg | 08.16.18 15:25 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

Parent Sample Id: 595729-004

Matrix: Soil

MS Sample Id: 595729-004 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 595729-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 17.1 | 250 | 272 | 102 | 269 | 101 | 90-110 | 1 | 20 | mg/kg | 08.16.18 15:46 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

Parent Sample Id: 595898-005

Matrix: Soil

MS Sample Id: 595898-005 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 595898-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 140 | 250 | 388 | 99 | 405 | 106 | 90-110 | 4 | 20 | mg/kg | 08.16.18 17:10 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

MB Sample Id: 7660590-1-BLK

Matrix: Solid

LCS Sample Id: 7660590-1-BKS

Prep Method: TX1005P

Date Prep: 08.16.18

LCSD Sample Id: 7660590-1-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 | 897 | 90 | 980 | 98 | 70-135 | 9 | 20 | mg/kg | 08.16.18 11:37 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 957 | 96 | 1030 | 103 | 70-135 | 7 | 20 | mg/kg | 08.16.18 11:37 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 89 | | 106 | | 125 | | 70-135 | % | 08.16.18 11:37 |
| o-Terphenyl | 92 | | 95 | | 115 | | 70-135 | % | 08.16.18 11:37 |

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

Parent Sample Id: 595898-001

Matrix: Soil

MS Sample Id: 595898-001 S

Prep Method: TX1005P

Date Prep: 08.16.18

MSD Sample Id: 595898-001 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 | 1000 | 875 | 88 | 866 | 87 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 948 | 95 | 938 | 94 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 107 | | 109 | | 70-135 | % | 08.16.18 12:35 |
| o-Terphenyl | 93 | | 92 | | 70-135 | % | 08.16.18 12:35 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

MB Sample Id: 7660920-1-BLK

Matrix: Solid

LCS Sample Id: 7660920-1-BKS

Prep Method: SW5030B

Date Prep: 08.22.18

LCSD Sample Id: 7660920-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.0998 | 0.0957 | 96 | 0.0970 | 97 | 70-130 | 1 | 35 | mg/kg | 08.22.18 10:36 | |
| Toluene | <0.00200 | 0.0998 | 0.0911 | 91 | 0.0937 | 94 | 70-130 | 3 | 35 | mg/kg | 08.22.18 10:36 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.100 | 100 | 0.104 | 104 | 70-130 | 4 | 35 | mg/kg | 08.22.18 10:36 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.216 | 108 | 0.234 | 116 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |
| o-Xylene | <0.00200 | 0.0998 | 0.103 | 103 | 0.112 | 112 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 100 | | 104 | | 112 | | 70-130 | % | 08.22.18 10:36 |
| 4-Bromofluorobenzene | 92 | | 100 | | 104 | | 70-130 | % | 08.22.18 10:36 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060988

MB Sample Id: 7660978-1-BLK

Matrix: Solid

LCS Sample Id: 7660978-1-BKS

Prep Method: SW5030B

Date Prep: 08.23.18

LCSD Sample Id: 7660978-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00199 | 0.0996 | 0.100 | 100 | 0.0978 | 98 | 70-130 | 2 | 35 | mg/kg | 08.23.18 08:44 | |
| Toluene | <0.00199 | 0.0996 | 0.0955 | 96 | 0.0944 | 94 | 70-130 | 1 | 35 | mg/kg | 08.23.18 08:44 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.110 | 110 | 0.106 | 106 | 70-130 | 4 | 35 | mg/kg | 08.23.18 08:44 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.235 | 118 | 0.229 | 115 | 70-130 | 3 | 35 | mg/kg | 08.23.18 08:44 | |
| o-Xylene | <0.00199 | 0.0996 | 0.114 | 114 | 0.109 | 109 | 70-130 | 4 | 35 | mg/kg | 08.23.18 08:44 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 99 | | 110 | | 106 | | 70-130 | % | 08.23.18 08:44 |
| 4-Bromofluorobenzene | 96 | | 119 | | 110 | | 70-130 | % | 08.23.18 08:44 |

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3061150

MB Sample Id: 7661091-1-BLK

Matrix: Solid

LCS Sample Id: 7661091-1-BKS

Prep Method: SW5030B

Date Prep: 08.24.18

LCSD Sample Id: 7661091-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00199 | 0.0996 | 0.0902 | 91 | 0.0900 | 90 | 70-130 | 0 | 35 | mg/kg | 08.24.18 07:57 | |
| Toluene | <0.00199 | 0.0996 | 0.0861 | 86 | 0.0863 | 86 | 70-130 | 0 | 35 | mg/kg | 08.24.18 07:57 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0980 | 98 | 0.0991 | 99 | 70-130 | 1 | 35 | mg/kg | 08.24.18 07:57 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.207 | 104 | 0.211 | 106 | 70-130 | 2 | 35 | mg/kg | 08.24.18 07:57 | |
| o-Xylene | <0.00199 | 0.0996 | 0.101 | 101 | 0.104 | 104 | 70-130 | 3 | 35 | mg/kg | 08.24.18 07:57 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 100 | | 104 | | 103 | | 70-130 | % | 08.24.18 07:57 |
| 4-Bromofluorobenzene | 92 | | 109 | | 105 | | 70-130 | % | 08.24.18 07:57 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

Parent Sample Id: 595901-001

Matrix: Soil

MS Sample Id: 595901-001 S

Prep Method: SW5030B

Date Prep: 08.22.18

MSD Sample Id: 595901-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00202 | 0.101 | 0.0677 | 67 | 0.0655 | 66 | 70-130 | 3 | 35 | mg/kg | 08.22.18 12:08 | X |
| Toluene | <0.00202 | 0.101 | 0.0655 | 65 | 0.0622 | 62 | 70-130 | 5 | 35 | mg/kg | 08.22.18 12:08 | X |
| Ethylbenzene | <0.00202 | 0.101 | 0.0684 | 68 | 0.0647 | 65 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |
| m,p-Xylenes | <0.00403 | 0.202 | 0.143 | 71 | 0.137 | 69 | 70-130 | 4 | 35 | mg/kg | 08.22.18 12:08 | X |
| o-Xylene | <0.00202 | 0.101 | 0.0673 | 67 | 0.0632 | 63 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 129 | | 70-130 | % | 08.22.18 12:08 |
| 4-Bromofluorobenzene | 106 | | 110 | | 70-130 | % | 08.22.18 12:08 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060988

Parent Sample Id: 595898-001

Matrix: Soil

MS Sample Id: 595898-001 S

Prep Method: SW5030B

Date Prep: 08.23.18

MSD Sample Id: 595898-001 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 | 0.0593 | 59 | 0.0612 | 61 | 70-130 | 3 | 35 | mg/kg | 08.23.18 10:06 | X |
| Toluene | <0.00200 | 0.0998 | 0.0610 | 61 | 0.0582 | 58 | 70-130 | 5 | 35 | mg/kg | 08.23.18 10:06 | X |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0677 | 68 | 0.0649 | 65 | 70-130 | 4 | 35 | mg/kg | 08.23.18 10:06 | X |
| m,p-Xylenes | <0.00399 | 0.200 | 0.143 | 72 | 0.135 | 67 | 70-130 | 6 | 35 | mg/kg | 08.23.18 10:06 | X |
| o-Xylene | <0.00200 | 0.0998 | 0.0708 | 71 | 0.0641 | 64 | 70-130 | 10 | 35 | mg/kg | 08.23.18 10:06 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 104 | | 101 | | 70-130 | % | 08.23.18 10:06 |
| 4-Bromofluorobenzene | 117 | | 110 | | 70-130 | % | 08.23.18 10:06 |

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3061150

Parent Sample Id: 596792-001

Matrix: Soil

MS Sample Id: 596792-001 S

Prep Method: SW5030B

Date Prep: 08.24.18

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | Limits | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|--------|-------|----------------|------|
| Benzene | <0.00204 | 0.102 | 0.0761 | 75 | 70-130 | mg/kg | 08.24.18 08:40 | |
| Toluene | <0.00204 | 0.102 | 0.0593 | 58 | 70-130 | mg/kg | 08.24.18 08:40 | X |
| Ethylbenzene | <0.00204 | 0.102 | 0.0708 | 69 | 70-130 | mg/kg | 08.24.18 08:40 | X |
| m,p-Xylenes | <0.00409 | 0.204 | 0.133 | 65 | 70-130 | mg/kg | 08.24.18 08:40 | X |
| o-Xylene | <0.00204 | 0.102 | 0.0760 | 75 | 70-130 | mg/kg | 08.24.18 08:40 | |

| Surrogate | MS %Rec | MS Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|--------|-------|----------------|
| 1,4-Difluorobenzene | 103 | | 70-130 | % | 08.24.18 08:40 |
| 4-Bromofluorobenzene | 106 | | 70-130 | % | 08.24.18 08:40 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



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CHAIN OF CUSTODY

Page 1 Of 1

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

www.xenco.com

Phoenix, Arizona (480-355-0900)

| Client / Reporting Information | | | | Project Information | | | | Analytical Information | | | | Matrix Codes | | | |
|---|--------------------------------|---------------|---------|---|--------|---------------|-----|--|------|------------|--------|--|------|------------------|--|
| Company Name / Branch: LT Environmental, Inc. - Permian Office | | | | Project Name/Number: Horned Toad 36 State #2H | | | | | | | | | | | |
| Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 | | | | Project Location: Carlsbad, NM | | | | | | | | | | | |
| Email: Abaker@lienry.com Adrian Baker | | | | Phone No: (432) 704-5178 | | | | Invoice To: XTO Energy - Kyle Littlell | | | | | | | |
| Project Contact: | | | | PO Number: ZRP-4850 | | | | | | | | | | | |
| Sampler's Name: Bever Betin | | | | | | | | | | | | | | | |
| No. | Field ID / Point of Collection | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | NaOH | NaHSO4 | MeOH | NONE | | |
| 1 | F512 | 8.5' | 8/10/18 | 1345 | S | 1 | | | | | | | | X BTEX EPA 8020 | |
| 2 | SW16 | 4' | | 1430 | I | 1 | | | | | | | | X TPH EPA 8015 | |
| 3 | SW17 | 4' | | 1615 | I | 1 | | | | | | | | X Chloride 300.1 | |
| 4 | SW18 | 4' | | 1620 | I | 1 | | | | | | | | X | |
| 5 | SW19 | 3' | | 1730 | I | 1 | | | | | | | | X | |
| 6 | F513 | 6' | | 1710 | I | 1 | | | | | | | | X | |
| 7 | SW20 | 3' | | 1720 | I | 1 | | | | | | | | X | |
| 8 | | | | | | | | | | | | | | X | |
| 9 | | | | | | | | | | | | | | X | |
| 10 | | | | | | | | | | | | | | X | |
| Turnaround Time (Business days) | | | | Data Deliverable Information | | | | Notes: | | | | | | | |
| <input type="checkbox"/> Same Day TAT | | | | <input checked="" type="checkbox"/> 5 Day TAT | | | | <input type="checkbox"/> Level II Std QC | | | | <input type="checkbox"/> Level IV (Full Data Pkg raw data) | | | |
| <input type="checkbox"/> Next Day EMERGENCY | | | | <input type="checkbox"/> 7 Day TAT | | | | <input type="checkbox"/> Level III Std QC+ Forms | | | | <input type="checkbox"/> TRRP Level IV | | | |
| <input type="checkbox"/> 2 Day EMERGENCY | | | | <input type="checkbox"/> Contract TAT | | | | <input type="checkbox"/> Level 3 (CLP Forms) | | | | <input type="checkbox"/> UST / RG 411 | | | |
| <input type="checkbox"/> 3 Day EMERGENCY | | | | | | | | <input type="checkbox"/> TRRP Checklist | | | | | | | |
| TAT Starts Day received by Lab, if received by 5:00 pm | | | | | | | | | | | | | | | |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY | | | | | | | | | | | | | | | |
| Relinquished by Sampler: | | Date Time: | | Received By: | | Date Time: | | Relinquished By: | | Date Time: | | Received By: | | Date Time: | |
| 1 | | 8/13/18 15:35 | | 1 | | 8/13/18 15:35 | | 2 | | 8/14 15:32 | | 3 | | 8/15/18 14:15 | |
| Relinquished by: | | Date Time: | | Received By: | | Date Time: | | Relinquished By: | | Date Time: | | Received By: | | Date Time: | |
| 3 | | | | 3 | | | | 4 | | | | 4 | | | |
| Relinquished by: | | Date Time: | | Received By: | | Date Time: | | Relinquished By: | | Date Time: | | Received By: | | Date Time: | |
| 5 | | | | 5 | | | | 6 | | | | 6 | | | |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$3 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract. | | | | | | | | | | | | | | | |
| FED-EX / UPS: Tracking # 17229157354939 | | | | | | | | | | | | | | | |
| On Ice <input checked="" type="checkbox"/> Cooler Temp. 0.3 Thermo Corr. Factor 1415 | | | | | | | | | | | | | | | |

| | | |
|---|--|---|
| ORIGIN ID:MAFA (806) 794-1296 XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US | | SHIP DATE: 14AUG18 ACTWGT: 34.00 LB CAD: 101813706/NET4040 DIMS: 26x14x14 IN BILL RECIPIENT |
| TO XENCO XENCO 1211 W. FLORIDA AVE MIDLAND TX 79701 (806) 794-1296 INV REF: PO DEPT: | | |
|   | | |
| TRK# 7729 7573 5439 0201 | WED - 15 AUG 3:00P STANDARD OVERNIGHT | 41 MAFA TX-US LBB 79701 |
|  | | |

552J113309/DCA5

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Client: LT Environmental, Inc.

Date/ Time Received: 08/15/2018 04:15:00 PM

Work Order #: 595898

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08/15/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/16/2018

Analytical Report 595899

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2H

24-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



24-AUG-18

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

Reference: XENCO Report No(s): **595899**
Horned Toad 36 State #2H
Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595899. 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. 595899 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,

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

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 595899****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW21 | S | 08-13-18 09:30 | 2.5 ft | 595899-001 |
| SW22 | S | 08-13-18 10:30 | 2 ft | 595899-002 |
| FS14 | S | 08-13-18 11:00 | 7 ft | 595899-003 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Horned Toad 36 State #2H

Project ID:

Work Order Number(s): 595899

Report Date: 24-AUG-18

Date Received: 08/15/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3061150 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 595899

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H

Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Wed Aug-15-18 04:15 pm

Report Date: 24-AUG-18

Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-------------------|------------------|------------------|------------------|--|--|--|
| Analysis Requested | Lab Id: | 595899-001 | 595899-002 | 595899-003 | | | |
| | Field Id: | SW21 | SW22 | FS14 | | | |
| | Depth: | 2.5- ft | 2- ft | 7- ft | | | |
| | Matrix: | SOIL | SOIL | SOIL | | | |
| | Sampled: | Aug-13-18 09:30 | Aug-13-18 10:30 | Aug-13-18 11:00 | | | |
| BTEX by EPA 8021B | Extracted: | Aug-24-18 08:00 | Aug-24-18 08:00 | Aug-24-18 08:00 | | | |
| | Analyzed: | Aug-24-18 16:51 | Aug-24-18 16:04 | Aug-24-18 16:30 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Benzene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | | | |
| Toluene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | | | |
| Ethylbenzene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | | | |
| m,p-Xylenes | | <0.00399 0.00399 | <0.00401 0.00401 | <0.00403 0.00403 | | | |
| o-Xylene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | | | |
| Total Xylenes | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | | | |
| Total BTEX | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | | | |
| Inorganic Anions by EPA 300 | Extracted: | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 | | | |
| | Analyzed: | Aug-16-18 17:27 | Aug-16-18 17:43 | Aug-16-18 17:48 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Chloride | | 52.1 49.9 | 173 49.8 | 28.7 24.8 | | | |
| TPH by SW8015 Mod | Extracted: | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-15-18 17:00 | | | |
| | Analyzed: | Aug-16-18 15:13 | Aug-16-18 15:33 | Aug-16-18 07:33 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Certificate of Analytical Results 595899



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW21**
Lab Sample Id: 595899-001

Matrix: Soil
Date Collected: 08.13.18 09.30

Date Received: 08.15.18 16.15
Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 52.1 | 49.9 | mg/kg | 08.16.18 17.27 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 15.13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 15.13 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 15.13 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 15.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.16.18 15.13 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-135 | 08.16.18 15.13 | |



Certificate of Analytical Results 595899

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW21**
 Lab Sample Id: 595899-001

Matrix: Soil
 Date Collected: 08.13.18 09.30

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.24.18 08.00

Basis: Wet Weight

Seq Number: 3061150

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.51 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 08.24.18 16.51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.51 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.51 | U | 1 |
| | | | | | | | |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 08.24.18 16.51 | | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 08.24.18 16.51 | | |



Certificate of Analytical Results 595899



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW22**
Lab Sample Id: 595899-002

Matrix: Soil
Date Collected: 08.13.18 10.30

Date Received: 08.15.18 16.15
Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 173 | 49.8 | mg/kg | 08.16.18 17.43 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 15.33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 15.33 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 15.33 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 15.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.16.18 15.33 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 08.16.18 15.33 | |



Certificate of Analytical Results 595899

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW22**
 Lab Sample Id: 595899-002

Matrix: Soil
 Date Collected: 08.13.18 10.30

Date Received: 08.15.18 16.15
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.24.18 08.00

Basis: Wet Weight

Seq Number: 3061150

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.04 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.04 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.04 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 08.24.18 16.04 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.04 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.04 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.24.18 16.04 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 08.24.18 16.04 | | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 08.24.18 16.04 | | |



Certificate of Analytical Results 595899



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS14**
Lab Sample Id: 595899-003

Matrix: Soil
Date Collected: 08.13.18 11.00

Date Received: 08.15.18 16.15
Sample Depth: 7 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 28.7 | 24.8 | mg/kg | 08.16.18 17.48 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060224

Date Prep: 08.15.18 17.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 07.33 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 07.33 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 07.33 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 07.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 08.16.18 07.33 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 08.16.18 07.33 | |



Certificate of Analytical Results 595899

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS14**
 Lab Sample Id: 595899-003

Matrix: Soil
 Date Collected: 08.13.18 11.00

Date Received: 08.15.18 16.15
 Sample Depth: 7 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.24.18 08.00

Basis: Wet Weight

Seq Number: 3061150

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 08.24.18 16.30 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 08.24.18 16.30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 08.24.18 16.30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 08.24.18 16.30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 08.24.18 16.30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 08.24.18 16.30 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 08.24.18 16.30 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 08.24.18 16.30 | | |
| 4-Bromofluorobenzene | 460-00-4 | 103 | % | 70-130 | 08.24.18 16.30 | | |



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** 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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

MB Sample Id: 7660558-1-BLK

Matrix: Solid

LCS Sample Id: 7660558-1-BKS

Prep Method: E300P

Date Prep: 08.16.18

LCSD Sample Id: 7660558-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <4.99 | 250 | 247 | 99 | 246 | 98 | 90-110 | 0 | 20 | mg/kg | 08.16.18 15:25 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

Parent Sample Id: 595729-004

Matrix: Soil

MS Sample Id: 595729-004 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 595729-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 17.1 | 250 | 272 | 102 | 269 | 101 | 90-110 | 1 | 20 | mg/kg | 08.16.18 15:46 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

Parent Sample Id: 595898-005

Matrix: Soil

MS Sample Id: 595898-005 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 595898-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 140 | 250 | 388 | 99 | 405 | 106 | 90-110 | 4 | 20 | mg/kg | 08.16.18 17:10 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060224

MB Sample Id: 7660477-1-BLK

Matrix: Solid

LCS Sample Id: 7660477-1-BKS

Prep Method: TX1005P

Date Prep: 08.15.18

LCSD Sample Id: 7660477-1-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 | 882 | 88 | 969 | 97 | 70-135 | 9 | 20 | mg/kg | 08.15.18 14:07 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 914 | 91 | 962 | 96 | 70-135 | 5 | 20 | mg/kg | 08.15.18 14:07 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 89 | | 126 | | 112 | | 70-135 | % | 08.15.18 14:07 |
| o-Terphenyl | 90 | | 98 | | 93 | | 70-135 | % | 08.15.18 14:07 |

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



LT Environmental, Inc.

Horned Toad 36 State #2H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

MB Sample Id: 7660590-1-BLK

Matrix: Solid

LCS Sample Id: 7660590-1-BKS

Prep Method: TX1005P

Date Prep: 08.16.18

LCSD Sample Id: 7660590-1-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 | 897 | 90 | 980 | 98 | 70-135 | 9 | 20 | mg/kg | 08.16.18 11:37 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 957 | 96 | 1030 | 103 | 70-135 | 7 | 20 | mg/kg | 08.16.18 11:37 | |
| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date | | | |
| 1-Chlorooctane | 89 | | 106 | | 125 | | 70-135 | % | 08.16.18 11:37 | | | |
| o-Terphenyl | 92 | | 95 | | 115 | | 70-135 | % | 08.16.18 11:37 | | | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060224

Parent Sample Id: 595675-001

Matrix: Soil

MS Sample Id: 595675-001 S

Prep Method: TX1005P

Date Prep: 08.15.18

MSD Sample Id: 595675-001 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) | 37.3 | 1000 | 885 | 85 | 891 | 85 | 70-135 | 1 | 20 | mg/kg | 08.15.18 15:06 | |
| Diesel Range Organics (DRO) | 298 | 1000 | 1240 | 94 | 1230 | 93 | 70-135 | 1 | 20 | mg/kg | 08.15.18 15:06 | |
| Surrogate | | | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date | | | |
| 1-Chlorooctane | | | 101 | | 108 | | 70-135 | % | 08.15.18 15:06 | | | |
| o-Terphenyl | | | 95 | | 95 | | 70-135 | % | 08.15.18 15:06 | | | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

Parent Sample Id: 595898-001

Matrix: Soil

MS Sample Id: 595898-001 S

Prep Method: TX1005P

Date Prep: 08.16.18

MSD Sample Id: 595898-001 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 | 1000 | 875 | 88 | 866 | 87 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 948 | 95 | 938 | 94 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |
| Surrogate | | | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date | | | |
| 1-Chlorooctane | | | 107 | | 109 | | 70-135 | % | 08.16.18 12:35 | | | |
| o-Terphenyl | | | 93 | | 92 | | 70-135 | % | 08.16.18 12:35 | | | |

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3061150

MB Sample Id: 7661091-1-BLK

Matrix: Solid

LCS Sample Id: 7661091-1-BKS

Prep Method: SW5030B

Date Prep: 08.24.18

LCSD Sample Id: 7661091-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00199 | 0.0996 | 0.0902 | 91 | 0.0900 | 90 | 70-130 | 0 | 35 | mg/kg | 08.24.18 07:57 | |
| Toluene | <0.00199 | 0.0996 | 0.0861 | 86 | 0.0863 | 86 | 70-130 | 0 | 35 | mg/kg | 08.24.18 07:57 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0980 | 98 | 0.0991 | 99 | 70-130 | 1 | 35 | mg/kg | 08.24.18 07:57 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.207 | 104 | 0.211 | 106 | 70-130 | 2 | 35 | mg/kg | 08.24.18 07:57 | |
| o-Xylene | <0.00199 | 0.0996 | 0.101 | 101 | 0.104 | 104 | 70-130 | 3 | 35 | mg/kg | 08.24.18 07:57 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 100 | | 104 | | 103 | | 70-130 | % | 08.24.18 07:57 |
| 4-Bromofluorobenzene | 92 | | 109 | | 105 | | 70-130 | % | 08.24.18 07:57 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3061150

Parent Sample Id: 596792-001

Matrix: Soil

MS Sample Id: 596792-001 S

Prep Method: SW5030B

Date Prep: 08.24.18

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | Limits | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|--------|-------|----------------|------|
| Benzene | <0.00204 | 0.102 | 0.0761 | 75 | 70-130 | mg/kg | 08.24.18 08:40 | |
| Toluene | <0.00204 | 0.102 | 0.0593 | 58 | 70-130 | mg/kg | 08.24.18 08:40 | X |
| Ethylbenzene | <0.00204 | 0.102 | 0.0708 | 69 | 70-130 | mg/kg | 08.24.18 08:40 | X |
| m,p-Xylenes | <0.00409 | 0.204 | 0.133 | 65 | 70-130 | mg/kg | 08.24.18 08:40 | X |
| o-Xylene | <0.00204 | 0.102 | 0.0760 | 75 | 70-130 | mg/kg | 08.24.18 08:40 | |

| Surrogate | MS %Rec | MS Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|--------|-------|----------------|
| 1,4-Difluorobenzene | 103 | | 70-130 | % | 08.24.18 08:40 |
| 4-Bromofluorobenzene | 106 | | 70-130 | % | 08.24.18 08:40 |

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



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 of 1

San Antonio, Texas (210-508-3334)
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

www.xenco.com

| Client / Reporting Information | | | | Project Information | | | | Analytical Information | | | | Matrix Codes | | | | | | | | | | | | | | |
|---|--------------------------------|--------------|------|---|--------|--------------|-----|------------------------|------|-------|------|--------------|------|------|---|----------------|--|--|---|--|--|--|--|--|--|--|
| Company Name / Branch: LT Environmental, Inc. - Permian Office | | | | Project Name/Number: Worned Total 36 State #2H | | | | | | | | | | | | | | | | | | | | | | |
| Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 | | | | Project Location: Carlsbad, NM | | | | | | | | | | | | | | | | | | | | | | |
| Email: Abaker@ltenv.com Adrian Baker Phone No: (432) 704-5178 | | | | Invoice To: XTO Energy - Kyle Litrell | | | | | | | | | | | | | | | | | | | | | | |
| Sample's Name: Bentail | | | | PO Number: ZRP-4450 | | | | | | | | | | | | | | | | | | | | | | |
| No. | Field ID / Point of Collection | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MeOH | NONE | Field Comments | | | | | | | | | | | |
| 1 | | SW 21 | 2.5' | 8/18/09 | 5 | 1 | | | | | | | | | X | BTEX EPA 8020 | | | | | | | | | | |
| 2 | | SW 22 | 2' | 1030 | | | | | | | | | | | X | TPH EPA 8015 | | | | | | | | | | |
| 3 | | FS 14 | 7' | 1100 | | | | | | | | | | | X | Chloride 700.1 | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Turnaround Time (Business days) | | | | | | | | | | | | | | | Data Deliverable Information | | | | Notes: | | | | | | | |
| <input type="checkbox"/> Same Day TAT | | | | | | | | | | | | | | | <input checked="" type="checkbox"/> 5 Day TAT | | | | <input type="checkbox"/> Level II Std QC | | | | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) | | | |
| <input type="checkbox"/> Next Day EMERGENCY | | | | | | | | | | | | | | | <input type="checkbox"/> 7 Day TAT | | | | <input type="checkbox"/> Level III Std QC + Forms | | | | <input type="checkbox"/> TRRP Level IV | | | |
| <input type="checkbox"/> 2 Day EMERGENCY | | | | | | | | | | | | | | | <input type="checkbox"/> Contract TAT | | | | <input type="checkbox"/> Level 3 (CLP Forms) | | | | <input type="checkbox"/> UST / RG 411 | | | |
| <input type="checkbox"/> 3 Day EMERGENCY | | | | | | | | | | | | | | | | | | | <input type="checkbox"/> TRRP Checklist | | | | | | | |
| TAT Starts Day received by Lab, if received by 5:00 pm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING CARRIER DELIVERY | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by Sampler: | | | | | | | | | | | | | | | Date Time: | | | | Relinquished By: | | | | FED-EX / UPS Tracking # | | | |
| 1. Relinquished by: | | | | | | | | | | | | | | | Date Time: | | | | Relinquished By: | | | | 779715735439 | | | |
| 3. Relinquished by: | | | | | | | | | | | | | | | Date Time: | | | | Relinquished By: | | | | | | | |
| 5. Relinquished by: | | | | | | | | | | | | | | | Date Time: | | | | Relinquished By: | | | | | | | |
| 6. Relinquished by: | | | | | | | | | | | | | | | Date Time: | | | | Relinquished By: | | | | | | | |

On Ice ☐ Cooler Temp. ☐ Thermal Cont. Factor ☐

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

| | |
|---|--|
| ORIGIN ID:MAFA (806) 794-1296 XENCO XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US | SHIP DATE: 14AUG18 ACTWGT: 34.00 LB CAD: 101813/06INET 4040 DIMS: 26x14x14 IN BILL RECIPIENT |
| TO XENCO XENCO 1211 W. FLORIDA AVE MIDLAND TX 79701 (806) 794-1296 INV. REF: PO. DEPT: | |



J182818872281ur

TRK# 7729 7573 5439
 0201
 41 MAFA
 TX-US LBB
 79701

WED - 15 AUG 3:00P
 STANDARD OVERNIGHT



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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Client: LT Environmental, Inc.

Date/ Time Received: 08/15/2018 04:15:00 PM

Work Order #: 595899

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08/15/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/16/2018

Analytical Report 595900

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2H

23-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



23-AUG-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **595900**

Horned Toad 36 State #2H

Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595900. 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. 595900 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 595900****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW10 | S | 08-09-18 09:10 | 2.5 ft | 595900-001 |
| FS10 | S | 08-09-18 12:15 | 2 ft | 595900-002 |
| SW11 | S | 08-09-18 12:20 | 1 ft | 595900-003 |
| SW12 | S | 08-09-18 12:25 | 1 ft | 595900-004 |
| SW13 | S | 08-09-18 12:30 | 1 ft | 595900-005 |
| FS11 | S | 08-09-18 12:50 | 3 ft | 595900-006 |
| SW14 | S | 08-09-18 13:10 | 2.5 ft | 595900-007 |
| SW15 | S | 08-09-18 13:20 | 2.5 ft | 595900-008 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Horned Toad 36 State #2H

Project ID:

Work Order Number(s): 595900

Report Date: 23-AUG-18

Date Received: 08/15/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3060904 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 595900

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H

Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Wed Aug-15-18 04:15 pm

Report Date: 23-AUG-18

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 595900-001 | 595900-002 | 595900-003 | 595900-004 | 595900-005 | 595900-006 |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | SW10 | FS10 | SW11 | SW12 | SW13 | FS11 |
| | <i>Depth:</i> | 2.5- ft | 2- ft | 1- ft | 1- ft | 1- ft | 3- ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Aug-09-18 09:10 | Aug-09-18 12:15 | Aug-09-18 12:20 | Aug-09-18 12:25 | Aug-09-18 12:30 | Aug-09-18 12:50 |
| BTEX by EPA 8021B | <i>Extracted:</i> | Aug-22-18 15:00 | Aug-22-18 15:00 | Aug-22-18 15:00 | Aug-22-18 15:00 | Aug-22-18 15:00 | Aug-22-18 15:00 |
| | <i>Analyzed:</i> | Aug-22-18 18:10 | Aug-22-18 18:31 | Aug-22-18 18:52 | Aug-22-18 19:12 | Aug-22-18 19:33 | Aug-22-18 19:54 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Benzene | | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00199 0.00199 |
| Toluene | | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00199 0.00199 |
| Ethylbenzene | | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00199 0.00199 |
| m,p-Xylenes | | <0.00397 0.00397 | <0.00399 0.00399 | <0.00403 0.00403 | <0.00402 0.00402 | <0.00398 0.00398 | <0.00398 0.00398 |
| o-Xylene | | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00199 0.00199 |
| Total Xylenes | | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00199 0.00199 |
| Total BTEX | | <0.00198 0.00198 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00199 0.00199 | <0.00199 0.00199 |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 14:00 | Aug-16-18 15:00 |
| | <i>Analyzed:</i> | Aug-16-18 17:54 | Aug-16-18 17:59 | Aug-16-18 18:05 | Aug-16-18 18:10 | Aug-16-18 18:16 | Aug-16-18 18:49 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 259 5.00 | <4.97 4.97 | 45.4 4.99 | 25.4 4.96 | 21.3 4.99 | <4.95 4.95 |
| TPH by SW8015 Mod | <i>Extracted:</i> | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 |
| | <i>Analyzed:</i> | Aug-16-18 15:52 | Aug-16-18 16:52 | Aug-16-18 17:12 | Aug-16-18 17:31 | Aug-16-18 17:51 | Aug-16-18 18:11 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Diesel Range Organics (DRO) | | 79.2 15.0 | <14.9 14.9 | 110 15.0 | <15.0 15.0 | <15.0 15.0 | 47.8 15.0 |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total TPH | | 79.2 15.0 | <14.9 14.9 | 110 15.0 | <15.0 15.0 | <15.0 15.0 | 47.8 15.0 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 595900

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2H

Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Wed Aug-15-18 04:15 pm

Report Date: 23-AUG-18

Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-----------------------------------|------------------|------------------|--|--|--|--|
| Analysis Requested | Lab Id: | 595900-007 | 595900-008 | | | | |
| | Field Id: | SW14 | SW15 | | | | |
| | Depth: | 2.5- ft | 2.5- ft | | | | |
| | Matrix: | SOIL | SOIL | | | | |
| | Sampled: | Aug-09-18 13:10 | Aug-09-18 13:20 | | | | |
| BTEX by EPA 8021B | Extracted: | Aug-22-18 15:00 | Aug-22-18 15:00 | | | | |
| | Analyzed: | Aug-22-18 21:18 | Aug-22-18 21:39 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | Benzene | <0.00201 0.00201 | <0.00202 0.00202 | | | | |
| | Toluene | <0.00201 0.00201 | <0.00202 0.00202 | | | | |
| Ethylbenzene | | <0.00201 0.00201 | <0.00202 0.00202 | | | | |
| m,p-Xylenes | | <0.00402 0.00402 | <0.00404 0.00404 | | | | |
| o-Xylene | | <0.00201 0.00201 | <0.00202 0.00202 | | | | |
| Total Xylenes | | <0.00201 0.00201 | <0.00202 0.00202 | | | | |
| Total BTEX | | <0.00201 0.00201 | <0.00202 0.00202 | | | | |
| Inorganic Anions by EPA 300 | Extracted: | Aug-16-18 15:00 | Aug-16-18 15:00 | | | | |
| | Analyzed: | Aug-16-18 19:05 | Aug-16-18 19:11 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | Chloride | 35.1 5.00 | 34.2 4.95 | | | | |
| | | | | | | | |
| TPH by SW8015 Mod | Extracted: | Aug-16-18 09:00 | Aug-16-18 09:00 | | | | |
| | Analyzed: | Aug-16-18 18:30 | Aug-16-18 18:50 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | Gasoline Range Hydrocarbons (GRO) | <15.0 15.0 | <15.0 15.0 | | | | |
| | Diesel Range Organics (DRO) | <15.0 15.0 | <15.0 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 15.0 | <15.0 15.0 | | | | |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | | | | |

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Version: 1.0%

Jessica Kramer
Project Assistant



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW10**
 Lab Sample Id: 595900-001

Matrix: Soil
 Date Collected: 08.09.18 09.10

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 259 | 5.00 | mg/kg | 08.16.18 17.54 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 15.52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 79.2 | 15.0 | mg/kg | 08.16.18 15.52 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 15.52 | U | 1 |
| Total TPH | PHC635 | 79.2 | 15.0 | mg/kg | 08.16.18 15.52 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 08.16.18 15.52 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-135 | 08.16.18 15.52 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW10**
 Lab Sample Id: 595900-001

Matrix: Soil
 Date Collected: 08.09.18 09.10

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 08.22.18 18.10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 08.22.18 18.10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 08.22.18 18.10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 08.22.18 18.10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 08.22.18 18.10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 08.22.18 18.10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 08.22.18 18.10 | U | 1 |
| | | | | | | | |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 08.22.18 18.10 | | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 08.22.18 18.10 | | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS10**
 Lab Sample Id: 595900-002

Matrix: Soil
 Date Collected: 08.09.18 12.15

Date Received: 08.15.18 16.15
 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.97 | 4.97 | mg/kg | 08.16.18 17.59 | U | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 08.16.18 16.52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | mg/kg | 08.16.18 16.52 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 08.16.18 16.52 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | mg/kg | 08.16.18 16.52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-135 | 08.16.18 16.52 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 08.16.18 16.52 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS10**
 Lab Sample Id: 595900-002

Matrix: Soil
 Date Collected: 08.09.18 12.15

Date Received: 08.15.18 16.15
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.22.18 18.31 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.22.18 18.31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.22.18 18.31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 08.22.18 18.31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.22.18 18.31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.22.18 18.31 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.22.18 18.31 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 08.22.18 18.31 | | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 08.22.18 18.31 | | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW11**
 Lab Sample Id: 595900-003

Matrix: Soil
 Date Collected: 08.09.18 12.20

Date Received: 08.15.18 16.15
 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 45.4 | 4.99 | mg/kg | 08.16.18 18.05 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 17.12 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 110 | 15.0 | mg/kg | 08.16.18 17.12 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 17.12 | U | 1 |
| Total TPH | PHC635 | 110 | 15.0 | mg/kg | 08.16.18 17.12 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.16.18 17.12 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 08.16.18 17.12 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW11**
 Lab Sample Id: 595900-003

Matrix: Soil
 Date Collected: 08.09.18 12.20

Date Received: 08.15.18 16.15
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 08.22.18 18.52 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 08.22.18 18.52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 08.22.18 18.52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 08.22.18 18.52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 08.22.18 18.52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 08.22.18 18.52 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 08.22.18 18.52 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 08.22.18 18.52 | | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 08.22.18 18.52 | | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW12**
 Lab Sample Id: 595900-004

Matrix: Soil
 Date Collected: 08.09.18 12.25

Date Received: 08.15.18 16.15
 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 25.4 | 4.96 | mg/kg | 08.16.18 18.10 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 17.31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 17.31 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 17.31 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 17.31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.16.18 17.31 | |
| o-Terphenyl | 84-15-1 | 87 | % | 70-135 | 08.16.18 17.31 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW12**
 Lab Sample Id: 595900-004

Matrix: Soil
 Date Collected: 08.09.18 12.25

Date Received: 08.15.18 16.15
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3060904

Date Prep: 08.22.18 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.22.18 19.12 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.22.18 19.12 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.22.18 19.12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.22.18 19.12 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.22.18 19.12 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.22.18 19.12 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.22.18 19.12 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 08.22.18 19.12 | | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 08.22.18 19.12 | | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW13**
 Lab Sample Id: 595900-005

Matrix: Soil
 Date Collected: 08.09.18 12.30

Date Received: 08.15.18 16.15
 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060331

Date Prep: 08.16.18 14.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 21.3 | 4.99 | mg/kg | 08.16.18 18.16 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 17.51 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 17.51 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 17.51 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 17.51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.16.18 17.51 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 08.16.18 17.51 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW13**
 Lab Sample Id: 595900-005

Matrix: Soil
 Date Collected: 08.09.18 12.30

Date Received: 08.15.18 16.15
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.33 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.22.18 19.33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.33 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.33 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 08.22.18 19.33 | | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 08.22.18 19.33 | | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS11**
 Lab Sample Id: 595900-006

Matrix: Soil
 Date Collected: 08.09.18 12.50

Date Received: 08.15.18 16.15
 Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060339

Date Prep: 08.16.18 15.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 08.16.18 18.49 | U | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 18.11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 47.8 | 15.0 | mg/kg | 08.16.18 18.11 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 18.11 | U | 1 |
| Total TPH | PHC635 | 47.8 | 15.0 | mg/kg | 08.16.18 18.11 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 08.16.18 18.11 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 08.16.18 18.11 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **FS11**
 Lab Sample Id: 595900-006

Matrix: Soil
 Date Collected: 08.09.18 12.50

Date Received: 08.15.18 16.15
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.54 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.22.18 19.54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.54 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.22.18 19.54 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 08.22.18 19.54 | | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 08.22.18 19.54 | | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW14**
 Lab Sample Id: 595900-007

Matrix: Soil
 Date Collected: 08.09.18 13.10

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060339

Date Prep: 08.16.18 15.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 35.1 | 5.00 | mg/kg | 08.16.18 19.05 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 18.30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 18.30 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 18.30 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 18.30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.16.18 18.30 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-135 | 08.16.18 18.30 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW14**
 Lab Sample Id: 595900-007

Matrix: Soil
 Date Collected: 08.09.18 13.10

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.22.18 21.18 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.22.18 21.18 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.22.18 21.18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.22.18 21.18 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.22.18 21.18 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.22.18 21.18 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.22.18 21.18 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 08.22.18 21.18 | | |
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 08.22.18 21.18 | | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW15**
 Lab Sample Id: 595900-008

Matrix: Soil
 Date Collected: 08.09.18 13.20

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060339

Date Prep: 08.16.18 15.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 34.2 | 4.95 | mg/kg | 08.16.18 19.11 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 18.50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 18.50 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 18.50 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 18.50 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 08.16.18 18.50 | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-135 | 08.16.18 18.50 | |



Certificate of Analytical Results 595900

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2H

Sample Id: **SW15**
 Lab Sample Id: 595900-008

Matrix: Soil
 Date Collected: 08.09.18 13.20

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 08.22.18 21.39 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 08.22.18 21.39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 08.22.18 21.39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 08.22.18 21.39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 08.22.18 21.39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 08.22.18 21.39 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 08.22.18 21.39 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 08.22.18 21.39 | | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 08.22.18 21.39 | | |



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 **SQL** 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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

MB Sample Id: 7660558-1-BLK

Matrix: Solid

LCS Sample Id: 7660558-1-BKS

Prep Method: E300P

Date Prep: 08.16.18

LCSD Sample Id: 7660558-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <4.99 | 250 | 247 | 99 | 246 | 98 | 90-110 | 0 | 20 | mg/kg | 08.16.18 15:25 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

MB Sample Id: 7660597-1-BLK

Matrix: Solid

LCS Sample Id: 7660597-1-BKS

Prep Method: E300P

Date Prep: 08.16.18

LCSD Sample Id: 7660597-1-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 | 250 | 100 | 90-110 | 1 | 20 | mg/kg | 08.16.18 18:38 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

Parent Sample Id: 595729-004

Matrix: Soil

MS Sample Id: 595729-004 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 595729-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 17.1 | 250 | 272 | 102 | 269 | 101 | 90-110 | 1 | 20 | mg/kg | 08.16.18 15:46 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060331

Parent Sample Id: 595898-005

Matrix: Soil

MS Sample Id: 595898-005 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 595898-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 140 | 250 | 388 | 99 | 405 | 106 | 90-110 | 4 | 20 | mg/kg | 08.16.18 17:10 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060339

Parent Sample Id: 595900-006

Matrix: Soil

MS Sample Id: 595900-006 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 595900-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | <4.95 | 248 | 258 | 104 | 258 | 104 | 90-110 | 0 | 20 | mg/kg | 08.16.18 18:54 | |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

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



LT Environmental, Inc.

Horned Toad 36 State #2H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060339

Parent Sample Id: 596049-001

Matrix: Soil

MS Sample Id: 596049-001 S

Prep Method: E300P

Date Prep: 08.16.18

MSD Sample Id: 596049-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 169 | 248 | 409 | 97 | 414 | 99 | 90-110 | 1 | 20 | mg/kg | 08.16.18 20:11 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

MB Sample Id: 7660590-1-BLK

Matrix: Solid

LCS Sample Id: 7660590-1-BKS

Prep Method: TX1005P

Date Prep: 08.16.18

LCSD Sample Id: 7660590-1-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 | 897 | 90 | 980 | 98 | 70-135 | 9 | 20 | mg/kg | 08.16.18 11:37 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 957 | 96 | 1030 | 103 | 70-135 | 7 | 20 | mg/kg | 08.16.18 11:37 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 89 | | 106 | | 125 | | 70-135 | % | 08.16.18 11:37 |
| o-Terphenyl | 92 | | 95 | | 115 | | 70-135 | % | 08.16.18 11:37 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

Parent Sample Id: 595898-001

Matrix: Soil

MS Sample Id: 595898-001 S

Prep Method: TX1005P

Date Prep: 08.16.18

MSD Sample Id: 595898-001 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 | 1000 | 875 | 88 | 866 | 87 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 948 | 95 | 938 | 94 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 107 | | 109 | | 70-135 | % | 08.16.18 12:35 |
| o-Terphenyl | 93 | | 92 | | 70-135 | % | 08.16.18 12:35 |

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



LT Environmental, Inc.
Horned Toad 36 State #2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

MB Sample Id: 7660920-1-BLK

Matrix: Solid

LCS Sample Id: 7660920-1-BKS

Prep Method: SW5030B

Date Prep: 08.22.18

LCSD Sample Id: 7660920-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.0998 | 0.0957 | 96 | 0.0970 | 97 | 70-130 | 1 | 35 | mg/kg | 08.22.18 10:36 | |
| Toluene | <0.00200 | 0.0998 | 0.0911 | 91 | 0.0937 | 94 | 70-130 | 3 | 35 | mg/kg | 08.22.18 10:36 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.100 | 100 | 0.104 | 104 | 70-130 | 4 | 35 | mg/kg | 08.22.18 10:36 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.216 | 108 | 0.234 | 116 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |
| o-Xylene | <0.00200 | 0.0998 | 0.103 | 103 | 0.112 | 112 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 100 | | 104 | | 112 | | 70-130 | % | 08.22.18 10:36 |
| 4-Bromofluorobenzene | 92 | | 100 | | 104 | | 70-130 | % | 08.22.18 10:36 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

Parent Sample Id: 595901-001

Matrix: Soil

MS Sample Id: 595901-001 S

Prep Method: SW5030B

Date Prep: 08.22.18

MSD Sample Id: 595901-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00202 | 0.101 | 0.0677 | 67 | 0.0655 | 66 | 70-130 | 3 | 35 | mg/kg | 08.22.18 12:08 | X |
| Toluene | <0.00202 | 0.101 | 0.0655 | 65 | 0.0622 | 62 | 70-130 | 5 | 35 | mg/kg | 08.22.18 12:08 | X |
| Ethylbenzene | <0.00202 | 0.101 | 0.0684 | 68 | 0.0647 | 65 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |
| m,p-Xylenes | <0.00403 | 0.202 | 0.143 | 71 | 0.137 | 69 | 70-130 | 4 | 35 | mg/kg | 08.22.18 12:08 | X |
| o-Xylene | <0.00202 | 0.101 | 0.0673 | 67 | 0.0632 | 63 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 129 | | 70-130 | % | 08.22.18 12:08 |
| 4-Bromofluorobenzene | 106 | | 110 | | 70-130 | % | 08.22.18 12:08 |

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



Setting the Standard since 1930
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

**San Antonio, Texas (210-509-3334,
Midland, Texas (432-704-5251)**

Phoenix, Arizona (480-355-0900)

CHAIN OF CUSTODY

Page 1 Of 1[illegible]

| | | |
|--|--|---|
| ORIGIN ID:MAFA (806) 794-1296 XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US | | SHIP DATE: 14AUG18 ACTWGT: 34.00 LB CAD: 101813706/NET4040 DIMS: 26x14x14 IN BILL RECIPIENT |
| TO XENCO XENCO 1211 W. FLORIDA AVE MIDLAND TX 79701 (806) 794-1296 INV: REF: PO: DEPT: | | |
| 552J11/3309/DCA5 | | |
|  | | |
|  | | |
| J182018772291uv | | |
| TRK# 7729 7573 5439 0201 | WED - 15 AUG 3:00P STANDARD OVERNIGHT | 41 MAFA TX-US LBB 79701 |
|  | | |

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08/15/2018 04:15:00 PM

Work Order #: 595900

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08/15/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/16/2018

Analytical Report 595901

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #2

30-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



30-AUG-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **595901**

Horned Toad 36 State #2

Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595901. 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. 595901 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 595901****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #2

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW09 | S | 08-08-18 11:05 | 2.5 ft | 595901-001 |
| FS08 | S | 08-08-18 11:10 | 3.5 ft | 595901-002 |
| FS09 | S | 08-08-18 12:15 | 2 ft | 595901-003 |

**CASE NARRATIVE***Client Name: LT Environmental, Inc.**Project Name: Horned Toad 36 State #2*

Project ID:

Work Order Number(s): 595901

Report Date: 30-AUG-18

Date Received: 08/15/2018

Sample receipt non conformances and comments:per clients email, corrected project name to Horned Toad 36 State #2. JKR 08/30/18

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3060904 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 595901-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 595901-001, -002, -003.

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 595901

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #2

Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Wed Aug-15-18 04:15 pm

Report Date: 30-AUG-18

Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-------------------|------------------|------------------|------------------|--|--|--|
| Analysis Requested | Lab Id: | 595901-001 | 595901-002 | 595901-003 | | | |
| | Field Id: | SW09 | FS08 | FS09 | | | |
| | Depth: | 2.5- ft | 3.5- ft | 2- ft | | | |
| | Matrix: | SOIL | SOIL | SOIL | | | |
| | Sampled: | Aug-08-18 11:05 | Aug-08-18 11:10 | Aug-08-18 12:15 | | | |
| BTEX by EPA 8021B | Extracted: | Aug-22-18 15:00 | Aug-22-18 15:00 | Aug-22-18 15:00 | | | |
| | Analyzed: | Aug-22-18 17:07 | Aug-22-18 17:28 | Aug-22-18 17:49 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Benzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Toluene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Ethylbenzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| m,p-Xylenes | | <0.00398 0.00398 | <0.00401 0.00401 | <0.00402 0.00402 | | | |
| o-Xylene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Total Xylenes | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Total BTEX | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Inorganic Anions by EPA 300 | Extracted: | Aug-20-18 13:00 | Aug-20-18 13:00 | Aug-20-18 13:00 | | | |
| | Analyzed: | Aug-20-18 16:38 | Aug-20-18 16:54 | Aug-20-18 16:05 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Chloride | | 294 25.1 | 145 49.5 | 25.6 5.03 | | | |
| TPH by SW8015 Mod | Extracted: | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | | | |
| | Analyzed: | Aug-16-18 19:10 | Aug-16-18 19:29 | Aug-16-18 19:48 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | | | |
| Diesel Range Organics (DRO) | | 24.4 14.9 | 23.3 15.0 | <15.0 15.0 | | | |
| Oil Range Hydrocarbons (ORO) | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | | | |
| Total TPH | | 24.4 14.9 | 23.3 15.0 | <15.0 15.0 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Certificate of Analytical Results 595901

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2

Sample Id: **SW09**
 Lab Sample Id: 595901-001

Matrix: Soil
 Date Collected: 08.08.18 11.05

Date Received: 08.15.18 16.15
 Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060701

Date Prep: 08.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 294 | 25.1 | mg/kg | 08.20.18 16.38 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 08.16.18 19.10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 24.4 | 14.9 | mg/kg | 08.16.18 19.10 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 08.16.18 19.10 | U | 1 |
| Total TPH | PHC635 | 24.4 | 14.9 | mg/kg | 08.16.18 19.10 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-135 | 08.16.18 19.10 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 08.16.18 19.10 | |



Certificate of Analytical Results 595901



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2

Sample Id: **SW09**
Lab Sample Id: 595901-001

Matrix: Soil
Date Collected: 08.08.18 11.05

Date Received: 08.15.18 16.15
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3060904

Date Prep: 08.22.18 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.22.18 17.07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 08.22.18 17.07 | | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 08.22.18 17.07 | | |



Certificate of Analytical Results 595901

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2

Sample Id: **FS08**
 Lab Sample Id: 595901-002

Matrix: Soil
 Date Collected: 08.08.18 11.10

Date Received: 08.15.18 16.15
 Sample Depth: 3.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060701

Date Prep: 08.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 145 | 49.5 | mg/kg | 08.20.18 16.54 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 19.29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 23.3 | 15.0 | mg/kg | 08.16.18 19.29 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 19.29 | U | 1 |
| Total TPH | PHC635 | 23.3 | 15.0 | mg/kg | 08.16.18 19.29 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 08.16.18 19.29 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-135 | 08.16.18 19.29 | |



Certificate of Analytical Results 595901

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2

Sample Id: **FS08**
 Lab Sample Id: 595901-002

Matrix: Soil
 Date Collected: 08.08.18 11.10

Date Received: 08.15.18 16.15
 Sample Depth: 3.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3060904

Date Prep: 08.22.18 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 08.22.18 17.28 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 08.22.18 17.28 | | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 08.22.18 17.28 | | |



Certificate of Analytical Results 595901



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2

Sample Id: **FS09**
Lab Sample Id: 595901-003

Matrix: Soil
Date Collected: 08.08.18 12.15

Date Received: 08.15.18 16.15
Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060701

Date Prep: 08.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 25.6 | 5.03 | mg/kg | 08.20.18 16.05 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.16.18 19.48 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-135 | 08.16.18 19.48 | |



Certificate of Analytical Results 595901

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #2

Sample Id: **FS09**
 Lab Sample Id: 595901-003

Matrix: Soil
 Date Collected: 08.08.18 12.15

Date Received: 08.15.18 16.15
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3060904

Date Prep: 08.22.18 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.22.18 17.49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 08.22.18 17.49 | | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 08.22.18 17.49 | | |



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



LT Environmental, Inc.

Horned Toad 36 State #2

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060701

MB Sample Id: 7660757-1-BLK

Matrix: Solid

LCS Sample Id: 7660757-1-BKS

Prep Method: E300P

Date Prep: 08.20.18

LCSD Sample Id: 7660757-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <5.00 | 250 | 247 | 99 | 246 | 98 | 90-110 | 0 | 20 | mg/kg | 08.20.18 15:54 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060701

Parent Sample Id: 595901-003

Matrix: Soil

MS Sample Id: 595901-003 S

Prep Method: E300P

Date Prep: 08.20.18

MSD Sample Id: 595901-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 25.6 | 252 | 277 | 100 | 277 | 100 | 90-110 | 0 | 20 | mg/kg | 08.20.18 16:10 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060701

Parent Sample Id: 596206-004

Matrix: Soil

MS Sample Id: 596206-004 S

Prep Method: E300P

Date Prep: 08.20.18

MSD Sample Id: 596206-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 7.52 | 252 | 262 | 101 | 259 | 100 | 90-110 | 1 | 20 | mg/kg | 08.20.18 17:37 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

MB Sample Id: 7660590-1-BLK

Matrix: Solid

LCS Sample Id: 7660590-1-BKS

Prep Method: TX1005P

Date Prep: 08.16.18

LCSD Sample Id: 7660590-1-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 | 897 | 90 | 980 | 98 | 70-135 | 9 | 20 | mg/kg | 08.16.18 11:37 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 957 | 96 | 1030 | 103 | 70-135 | 7 | 20 | mg/kg | 08.16.18 11:37 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 89 | | 106 | | 125 | | 70-135 | % | 08.16.18 11:37 |
| o-Terphenyl | 92 | | 95 | | 115 | | 70-135 | % | 08.16.18 11:37 |

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



LT Environmental, Inc.

Horned Toad 36 State #2

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

Parent Sample Id: 595898-001

Matrix: Soil

MS Sample Id: 595898-001 S

Prep Method: TX1005P

Date Prep: 08.16.18

MSD Sample Id: 595898-001 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 | 1000 | 875 | 88 | 866 | 87 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 948 | 95 | 938 | 94 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 107 | | 109 | | 70-135 | % | 08.16.18 12:35 |
| o-Terphenyl | 93 | | 92 | | 70-135 | % | 08.16.18 12:35 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

MB Sample Id: 7660920-1-BLK

Matrix: Solid

LCS Sample Id: 7660920-1-BKS

Prep Method: SW5030B

Date Prep: 08.22.18

LCSD Sample Id: 7660920-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.0998 | 0.0957 | 96 | 0.0970 | 97 | 70-130 | 1 | 35 | mg/kg | 08.22.18 10:36 | |
| Toluene | <0.00200 | 0.0998 | 0.0911 | 91 | 0.0937 | 94 | 70-130 | 3 | 35 | mg/kg | 08.22.18 10:36 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.100 | 100 | 0.104 | 104 | 70-130 | 4 | 35 | mg/kg | 08.22.18 10:36 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.216 | 108 | 0.234 | 116 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |
| o-Xylene | <0.00200 | 0.0998 | 0.103 | 103 | 0.112 | 112 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 100 | | 104 | | 112 | | 70-130 | % | 08.22.18 10:36 |
| 4-Bromofluorobenzene | 92 | | 100 | | 104 | | 70-130 | % | 08.22.18 10:36 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

Parent Sample Id: 595901-001

Matrix: Soil

MS Sample Id: 595901-001 S

Prep Method: SW5030B

Date Prep: 08.22.18

MSD Sample Id: 595901-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00202 | 0.101 | 0.0677 | 67 | 0.0655 | 66 | 70-130 | 3 | 35 | mg/kg | 08.22.18 12:08 | X |
| Toluene | <0.00202 | 0.101 | 0.0655 | 65 | 0.0622 | 62 | 70-130 | 5 | 35 | mg/kg | 08.22.18 12:08 | X |
| Ethylbenzene | <0.00202 | 0.101 | 0.0684 | 68 | 0.0647 | 65 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |
| m,p-Xylenes | <0.00403 | 0.202 | 0.143 | 71 | 0.137 | 69 | 70-130 | 4 | 35 | mg/kg | 08.22.18 12:08 | X |
| o-Xylene | <0.00202 | 0.101 | 0.0673 | 67 | 0.0632 | 63 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 129 | | 70-130 | % | 08.22.18 12:08 |
| 4-Bromofluorobenzene | 106 | | 110 | | 70-130 | % | 08.22.18 12:08 |

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



Setting the Standard since 1930
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

CHAIN OF CUSTODY

Page 1 of 1

[illegible]

| | | |
|---|--|--|
| ORIGIN ID:MAFA (806) 794-1296 XENCO XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US | | SHIP DATE: 14AUG18 ACTWGT: 34.00 LB CAD: 101813706/NET14040 DIMS: 26x14x14 IN BILL RECIPIENT |
| TO XENCO XENCO 1211 W. FLORIDA AVE MIDLAND TX 79701 (806) 794-1296 INV. REF. PO. DEPT. | | |
| TRACK# 7729 7573 5439 WED - 15 AUG 3:00P STANDARD OVERNIGHT 41 MAFA TX-US LBB 79701 | | |




552J113309/DCA6

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Client: LT Environmental, Inc.

Date/ Time Received: 08/15/2018 04:15:00 PM

Work Order #: 595901

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08/15/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/16/2018

Analytical Report 595901

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #24

23-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



23-AUG-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **595901**

Horned Toad 36 State #24

Project Address: Carlsbad, NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 595901. 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. 595901 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 595901****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #24

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW09 | S | 08-08-18 11:05 | 2.5 ft | 595901-001 |
| FS08 | S | 08-08-18 11:10 | 3.5 ft | 595901-002 |
| FS09 | S | 08-08-18 12:15 | 2 ft | 595901-003 |

**CASE NARRATIVE***Client Name: LT Environmental, Inc.**Project Name: Horned Toad 36 State #24*

Project ID:

Work Order Number(s): 595901

Report Date: 23-AUG-18

Date Received: 08/15/2018

Sample receipt non conformances and comments:None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3060904 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 595901-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 595901-001, -002, -003.

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 595901

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #24

Project Id:

Contact: Adrian Baker

Project Location: Carlsbad, NM

Date Received in Lab: Wed Aug-15-18 04:15 pm

Report Date: 23-AUG-18

Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-------------------|------------------|------------------|------------------|--|--|--|
| Analysis Requested | Lab Id: | 595901-001 | 595901-002 | 595901-003 | | | |
| | Field Id: | SW09 | FS08 | FS09 | | | |
| | Depth: | 2.5- ft | 3.5- ft | 2- ft | | | |
| | Matrix: | SOIL | SOIL | SOIL | | | |
| | Sampled: | Aug-08-18 11:05 | Aug-08-18 11:10 | Aug-08-18 12:15 | | | |
| BTEX by EPA 8021B | Extracted: | Aug-22-18 15:00 | Aug-22-18 15:00 | Aug-22-18 15:00 | | | |
| | Analyzed: | Aug-22-18 17:07 | Aug-22-18 17:28 | Aug-22-18 17:49 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Benzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Toluene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Ethylbenzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| m,p-Xylenes | | <0.00398 0.00398 | <0.00401 0.00401 | <0.00402 0.00402 | | | |
| o-Xylene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Total Xylenes | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Total BTEX | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | | | |
| Inorganic Anions by EPA 300 | Extracted: | Aug-20-18 13:00 | Aug-20-18 13:00 | Aug-20-18 13:00 | | | |
| | Analyzed: | Aug-20-18 16:38 | Aug-20-18 16:54 | Aug-20-18 16:05 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Chloride | | 294 25.1 | 145 49.5 | 25.6 5.03 | | | |
| TPH by SW8015 Mod | Extracted: | Aug-16-18 09:00 | Aug-16-18 09:00 | Aug-16-18 09:00 | | | |
| | Analyzed: | Aug-16-18 19:10 | Aug-16-18 19:29 | Aug-16-18 19:48 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Gasoline Range Hydrocarbons (GRO) | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | | | |
| Diesel Range Organics (DRO) | | 24.4 14.9 | 23.3 15.0 | <15.0 15.0 | | | |
| Oil Range Hydrocarbons (ORO) | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | | | |
| Total TPH | | 24.4 14.9 | 23.3 15.0 | <15.0 15.0 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Certificate of Analytical Results 595901



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #24

Sample Id: **SW09**
Lab Sample Id: 595901-001

Matrix: Soil
Date Collected: 08.08.18 11.05

Date Received: 08.15.18 16.15
Sample Depth: 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060701

Date Prep: 08.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 294 | 25.1 | mg/kg | 08.20.18 16.38 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 08.16.18 19.10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 24.4 | 14.9 | mg/kg | 08.16.18 19.10 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 08.16.18 19.10 | U | 1 |
| Total TPH | PHC635 | 24.4 | 14.9 | mg/kg | 08.16.18 19.10 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-135 | 08.16.18 19.10 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 08.16.18 19.10 | |



Certificate of Analytical Results 595901



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #24

Sample Id: **SW09**
Lab Sample Id: 595901-001

Matrix: Soil
Date Collected: 08.08.18 11.05

Date Received: 08.15.18 16.15
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 08.22.18 17.07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 08.22.18 17.07 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 08.22.18 17.07 | | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 08.22.18 17.07 | | |



Certificate of Analytical Results 595901

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #24

Sample Id: **FS08**
 Lab Sample Id: 595901-002

Matrix: Soil
 Date Collected: 08.08.18 11.10

Date Received: 08.15.18 16.15
 Sample Depth: 3.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060701

Date Prep: 08.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 145 | 49.5 | mg/kg | 08.20.18 16.54 | | 10 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 19.29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 23.3 | 15.0 | mg/kg | 08.16.18 19.29 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 19.29 | U | 1 |
| Total TPH | PHC635 | 23.3 | 15.0 | mg/kg | 08.16.18 19.29 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 08.16.18 19.29 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-135 | 08.16.18 19.29 | |



Certificate of Analytical Results 595901

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #24

Sample Id: **FS08**
 Lab Sample Id: 595901-002

Matrix: Soil
 Date Collected: 08.08.18 11.10

Date Received: 08.15.18 16.15
 Sample Depth: 3.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 08.22.18 17.28 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 08.22.18 17.28 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 08.22.18 17.28 | | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 08.22.18 17.28 | | |



Certificate of Analytical Results 595901



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #24

Sample Id: **FS09**
Lab Sample Id: 595901-003

Matrix: Soil
Date Collected: 08.08.18 12.15

Date Received: 08.15.18 16.15
Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3060701

Date Prep: 08.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 25.6 | 5.03 | mg/kg | 08.20.18 16.05 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3060379

Date Prep: 08.16.18 09.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 08.16.18 19.48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 08.16.18 19.48 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-135 | 08.16.18 19.48 | |



Certificate of Analytical Results 595901



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #24

Sample Id: **FS09**
Lab Sample Id: 595901-003

Matrix: Soil
Date Collected: 08.08.18 12.15

Date Received: 08.15.18 16.15
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.22.18 15.00

Basis: Wet Weight

Seq Number: 3060904

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 08.22.18 17.49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 08.22.18 17.49 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 08.22.18 17.49 | | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 08.22.18 17.49 | | |



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



LT Environmental, Inc.
Horned Toad 36 State #24

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060701

MB Sample Id: 7660757-1-BLK

Matrix: Solid

LCS Sample Id: 7660757-1-BKS

Prep Method: E300P

Date Prep: 08.20.18

LCSD Sample Id: 7660757-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <5.00 | 250 | 247 | 99 | 246 | 98 | 90-110 | 0 | 20 | mg/kg | 08.20.18 15:54 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060701

Parent Sample Id: 595901-003

Matrix: Soil

MS Sample Id: 595901-003 S

Prep Method: E300P

Date Prep: 08.20.18

MSD Sample Id: 595901-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 25.6 | 252 | 277 | 100 | 277 | 100 | 90-110 | 0 | 20 | mg/kg | 08.20.18 16:10 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3060701

Parent Sample Id: 596206-004

Matrix: Soil

MS Sample Id: 596206-004 S

Prep Method: E300P

Date Prep: 08.20.18

MSD Sample Id: 596206-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 7.52 | 252 | 262 | 101 | 259 | 100 | 90-110 | 1 | 20 | mg/kg | 08.20.18 17:37 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

MB Sample Id: 7660590-1-BLK

Matrix: Solid

LCS Sample Id: 7660590-1-BKS

Prep Method: TX1005P

Date Prep: 08.16.18

LCSD Sample Id: 7660590-1-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 | 897 | 90 | 980 | 98 | 70-135 | 9 | 20 | mg/kg | 08.16.18 11:37 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 957 | 96 | 1030 | 103 | 70-135 | 7 | 20 | mg/kg | 08.16.18 11:37 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 89 | | 106 | | 125 | | 70-135 | % | 08.16.18 11:37 |
| o-Terphenyl | 92 | | 95 | | 115 | | 70-135 | % | 08.16.18 11:37 |

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



LT Environmental, Inc.
Horned Toad 36 State #24

Analytical Method: TPH by SW8015 Mod

Seq Number: 3060379

Parent Sample Id: 595898-001

Matrix: Soil

MS Sample Id: 595898-001 S

Prep Method: TX1005P

Date Prep: 08.16.18

MSD Sample Id: 595898-001 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 | 1000 | 875 | 88 | 866 | 87 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 948 | 95 | 938 | 94 | 70-135 | 1 | 20 | mg/kg | 08.16.18 12:35 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 107 | | 109 | | 70-135 | % | 08.16.18 12:35 |
| o-Terphenyl | 93 | | 92 | | 70-135 | % | 08.16.18 12:35 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

MB Sample Id: 7660920-1-BLK

Matrix: Solid

LCS Sample Id: 7660920-1-BKS

Prep Method: SW5030B

Date Prep: 08.22.18

LCSD Sample Id: 7660920-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.0998 | 0.0957 | 96 | 0.0970 | 97 | 70-130 | 1 | 35 | mg/kg | 08.22.18 10:36 | |
| Toluene | <0.00200 | 0.0998 | 0.0911 | 91 | 0.0937 | 94 | 70-130 | 3 | 35 | mg/kg | 08.22.18 10:36 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.100 | 100 | 0.104 | 104 | 70-130 | 4 | 35 | mg/kg | 08.22.18 10:36 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.216 | 108 | 0.234 | 116 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |
| o-Xylene | <0.00200 | 0.0998 | 0.103 | 103 | 0.112 | 112 | 70-130 | 8 | 35 | mg/kg | 08.22.18 10:36 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 100 | | 104 | | 112 | | 70-130 | % | 08.22.18 10:36 |
| 4-Bromofluorobenzene | 92 | | 100 | | 104 | | 70-130 | % | 08.22.18 10:36 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3060904

Parent Sample Id: 595901-001

Matrix: Soil

MS Sample Id: 595901-001 S

Prep Method: SW5030B

Date Prep: 08.22.18

MSD Sample Id: 595901-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00202 | 0.101 | 0.0677 | 67 | 0.0655 | 66 | 70-130 | 3 | 35 | mg/kg | 08.22.18 12:08 | X |
| Toluene | <0.00202 | 0.101 | 0.0655 | 65 | 0.0622 | 62 | 70-130 | 5 | 35 | mg/kg | 08.22.18 12:08 | X |
| Ethylbenzene | <0.00202 | 0.101 | 0.0684 | 68 | 0.0647 | 65 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |
| m,p-Xylenes | <0.00403 | 0.202 | 0.143 | 71 | 0.137 | 69 | 70-130 | 4 | 35 | mg/kg | 08.22.18 12:08 | X |
| o-Xylene | <0.00202 | 0.101 | 0.0673 | 67 | 0.0632 | 63 | 70-130 | 6 | 35 | mg/kg | 08.22.18 12:08 | X |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 129 | | 70-130 | % | 08.22.18 12:08 |
| 4-Bromofluorobenzene | 106 | | 110 | | 70-130 | % | 08.22.18 12:08 |

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



Setting the Standard since 1930
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

CHAIN OF CUSTODY

Page 1 Of 1

| Client / Reporting Information | | | | Project Information | | | | Analytical Information | | | | Matrix Codes | | | | | |
|--|--|--|--|--|------|--------|--------|--|-----|-----------------|------|--|------|--------|------|------|----------------|
| Company Name / Branch: LT Environmental, Inc. - Permian Office | | | | Project Name/Number: Turned Road 36 State #24 | | | | | | | | | | | | | |
| Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 | | | | Project Location: Carlsbad, NM | | | | | | | | | | | | | |
| Email: AD Baker@ltenv.com Adrian Baker | | | | Invoice To: XTO Energy - Kyle Littell | | | | | | | | | | | | | |
| Phone No: (432) 704-5178 | | | | XTO Energy - Kyle Littell | | | | | | | | | | | | | |
| Sampler's Name: Ben Bette | | | | PO Number: 260-4850 | | | | | | | | | | | | | |
| No. Field ID / Point of Collection | | | | Collection | | | | Number of preserved bottles | | | | Field Comments | | | | | |
| | | | | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | |
| 1 | | | | SWD 4 | 2.5' | 8/6/18 | 11:05 | S | 1 | | | | | | | | BTEX EPA 8020 |
| 2 | | | | FSO 8 | 3.5' | | 11:10 | | | | | | | | | | TPH EPA 8015 |
| 3 | | | | FSO 9 | 2' | | 12:15 | | | | | | | | | | Chloride 300.1 |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| Turnaround Time (Business days) | | | | | | | | Data Deliverable Information | | | | Notes: | | | | | |
| <input type="checkbox"/> Same Day TAT | | | | <input checked="" type="checkbox"/> 5 Day TAT | | | | <input type="checkbox"/> Level II Std QC | | | | <input type="checkbox"/> Level IV (Full Data Pkg (raw data)) | | | | | |
| <input type="checkbox"/> Next Day EMERGENCY | | | | <input type="checkbox"/> 7 Day TAT | | | | <input type="checkbox"/> Level III Std QC+ Forms | | | | <input type="checkbox"/> TRRP Level IV | | | | | |
| <input type="checkbox"/> 2 Day EMERGENCY | | | | <input type="checkbox"/> Contract TAT | | | | <input type="checkbox"/> Level 3 (CLP Forms) | | | | <input type="checkbox"/> UST / RG -411 | | | | | |
| <input type="checkbox"/> 3 Day EMERGENCY | | | | | | | | <input type="checkbox"/> TRRP Checklist | | | | | | | | | |
| TAT Starts Day received by Lab, if received by 5:00 pm | | | | | | | | | | | | | | | | | |
| Relinquished by Sampler: | | | | Date Time: 5/13/18 15:35 | | | | Received By: 1. [Signature] | | | | Relinquished By: 2. [Signature] | | | | | |
| Relinquished by: | | | | Date Time: | | | | Received By: 3. | | | | Relinquished By: 4. | | | | | |
| Relinquished by: | | | | Date Time: | | | | Received By: 5. | | | | Relinquished By: 6. | | | | | |
| FED-EX / UPS: Tracking # 773975735939 | | | | | | | | | | | | | | | | | |
| On Ice | | | | Cooler Temp. | | | | Thermo Corr. Factor | | | | | | | | | |
| 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 service. | | | | | | | | | | | | | | | | | |

| | | |
|---|--|--|
| ORIGIN ID:MAFA (806) 794-1296 XENCO XENCO 1211 W. FLORIDA AVE MIDLAND, TX 79701 UNITED STATES US | | SHIP DATE: 14AUG18 ACTWGT: 34.00 LB CAD: 101813706/NET14040 DIMS: 26x14x14 IN BILL RECIPIENT |
| TO XENCO XENCO 1211 W. FLORIDA AVE MIDLAND TX 79701 (806) 794-1296 INV. REF. PO. DEPT. | | |
|  | | |
|  | | |
| J182018872291ux | | |
| 552J113309/DCA6 | | |

| | |
|----------------------------------|---|
| TRK# 0201 7729 7573 5439 | WED - 15 AUG 3:00P STANDARD OVERNIGHT |
| 41 MAFA TX-US 79701 LBB |  |

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08/15/2018 04:15:00 PM

Work Order #: 595901

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist**Comments**

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08/15/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/16/2018

Analytical Report 603506

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #002H

012918129

29-OCT-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



29-OCT-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **603506**

Horned Toad 36 State #002H

Project Address: Eddy. NM 2RP-4850

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 603506. 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. 603506 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 603506****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #002H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW11A | S | 10-22-18 15:40 | 1 ft | 603506-001 |
| SW03A | S | 10-23-18 10:20 | 2 ft | 603506-002 |
| SW23 | S | 10-23-18 11:50 | 2 ft | 603506-003 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Horned Toad 36 State #002H

Project ID: 012918129

Work Order Number(s): 603506

Report Date: 29-OCT-18

Date Received: 10/25/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3067712 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3067839 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 603506

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #002H

Project Id: 012918129
Contact: Adrian Baker
Project Location: Eddy. NM 2RP-4850

Date Received in Lab: Thu Oct-25-18 11:35 am
Report Date: 29-OCT-18
Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-------------------|------------------|------------------|------------------|--|--|--|
| Analysis Requested | Lab Id: | 603506-001 | 603506-002 | 603506-003 | | | |
| | Field Id: | SW11A | SW03A | SW23 | | | |
| | Depth: | 1- ft | 2- ft | 2- ft | | | |
| | Matrix: | SOIL | SOIL | SOIL | | | |
| | Sampled: | Oct-22-18 15:40 | Oct-23-18 10:20 | Oct-23-18 11:50 | | | |
| BTEX by EPA 8021B | Extracted: | Oct-25-18 17:00 | Oct-25-18 17:00 | Oct-26-18 18:00 | | | |
| | Analyzed: | Oct-25-18 22:55 | Oct-25-18 23:56 | Oct-28-18 03:07 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Benzene | | <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 | | | |
| Ethylbenzene | | <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 | | | |
| o-Xylene | | <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 | | | |
| Total BTEX | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | | | |
| Inorganic Anions by EPA 300 | Extracted: | Oct-25-18 14:30 | Oct-25-18 14:30 | Oct-25-18 14:30 | | | |
| | Analyzed: | Oct-25-18 18:52 | Oct-25-18 18:57 | Oct-25-18 19:03 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Chloride | | 225 4.95 | 327 25.0 | 74.4 4.99 | | | |
| TPH by SW8015 Mod | Extracted: | Oct-25-18 16:00 | Oct-25-18 16:00 | Oct-25-18 16:00 | | | |
| | Analyzed: | Oct-26-18 02:27 | Oct-26-18 07:39 | Oct-26-18 03:04 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Diesel Range Organics (DRO) | | 146 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Motor Oil Range Hydrocarbons (MRO) | | 18.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Total TPH | | 164 15.0 | <15.0 15.0 | <15.0 15.0 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Jessica Kramer
Project Assistant



Certificate of Analytical Results 603506



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW11A**
Lab Sample Id: 603506-001

Matrix: Soil
Date Collected: 10.22.18 15.40

Date Received: 10.25.18 11.35
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3067615

Date Prep: 10.25.18 14.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 225 | 4.95 | mg/kg | 10.25.18 18.52 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3067717

Date Prep: 10.25.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 10.26.18 02.27 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 146 | 15.0 | mg/kg | 10.26.18 02.27 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 18.0 | 15.0 | mg/kg | 10.26.18 02.27 | | 1 |
| Total TPH | PHC635 | 164 | 15.0 | mg/kg | 10.26.18 02.27 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 10.26.18 02.27 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 10.26.18 02.27 | |



Certificate of Analytical Results 603506



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW11A**
Lab Sample Id: 603506-001

Matrix: Soil
Date Collected: 10.22.18 15.40

Date Received: 10.25.18 11.35
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: JUM

% Moisture:

Analyst: JUM

Date Prep: 10.25.18 17.00

Basis: Wet Weight

Seq Number: 3067712

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.25.18 22.55 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.25.18 22.55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.25.18 22.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.25.18 22.55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.25.18 22.55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.25.18 22.55 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.25.18 22.55 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 87 | % | 70-130 | 10.25.18 22.55 | | |
| 1,4-Difluorobenzene | 540-36-3 | 113 | % | 70-130 | 10.25.18 22.55 | | |



Certificate of Analytical Results 603506



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW03A**
Lab Sample Id: 603506-002

Matrix: Soil
Date Collected: 10.23.18 10.20

Date Received: 10.25.18 11.35
Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3067615

Date Prep: 10.25.18 14.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 327 | 25.0 | mg/kg | 10.25.18 18.57 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3067717

Date Prep: 10.25.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 10.26.18 07.39 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 10.26.18 07.39 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 10.26.18 07.39 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 10.26.18 07.39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 10.26.18 07.39 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 10.26.18 07.39 | |



Certificate of Analytical Results 603506



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW03A**
Lab Sample Id: 603506-002

Matrix: Soil
Date Collected: 10.23.18 10.20

Date Received: 10.25.18 11.35
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: JUM

% Moisture:

Analyst: JUM

Date Prep: 10.25.18 17.00

Basis: Wet Weight

Seq Number: 3067712

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.25.18 23.56 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.25.18 23.56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.25.18 23.56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.25.18 23.56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.25.18 23.56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.25.18 23.56 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.25.18 23.56 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 79 | % | 70-130 | 10.25.18 23.56 | | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 10.25.18 23.56 | | |



Certificate of Analytical Results 603506

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW23**
 Lab Sample Id: 603506-003

Matrix: Soil
 Date Collected: 10.23.18 11.50

Date Received: 10.25.18 11.35
 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3067615

Date Prep: 10.25.18 14.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 74.4 | 4.99 | mg/kg | 10.25.18 19.03 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3067717

Date Prep: 10.25.18 16.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 10.26.18 03.04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 10.26.18 03.04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 10.26.18 03.04 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 10.26.18 03.04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 10.26.18 03.04 | |
| o-Terphenyl | 84-15-1 | 92 | % | 70-135 | 10.26.18 03.04 | |



Certificate of Analytical Results 603506



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW23**

Matrix: Soil

Date Received: 10.25.18 11.35

Lab Sample Id: 603506-003

Date Collected: 10.23.18 11.50

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: JUM

% Moisture:

Analyst: JUM

Date Prep: 10.26.18 18.00

Basis: Wet Weight

Seq Number: 3067839

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 10.28.18 03.07 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 10.28.18 03.07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 10.28.18 03.07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 10.28.18 03.07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 10.28.18 03.07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 10.28.18 03.07 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 10.28.18 03.07 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 10.28.18 03.07 | | |
| 4-Bromofluorobenzene | 460-00-4 | 85 | % | 70-130 | 10.28.18 03.07 | | |



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



LT Environmental, Inc.
Horned Toad 36 State #002H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3067615

MB Sample Id: 7664859-1-BLK

Matrix: Solid

LCS Sample Id: 7664859-1-BKS

Prep Method: E300P

Date Prep: 10.25.18

LCSD Sample Id: 7664859-1-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 | 272 | 109 | 274 | 110 | 90-110 | 1 | 20 | mg/kg | 10.25.18 16:50 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3067615

Parent Sample Id: 603504-001

Matrix: Soil

MS Sample Id: 603504-001 S

Prep Method: E300P

Date Prep: 10.25.18

MSD Sample Id: 603504-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 15.5 | 248 | 280 | 107 | 282 | 107 | 90-110 | 1 | 20 | mg/kg | 10.25.18 17:06 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3067615

Parent Sample Id: 603552-003

Matrix: Soil

MS Sample Id: 603552-003 S

Prep Method: E300P

Date Prep: 10.25.18

MSD Sample Id: 603552-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | <0.850 | 248 | 262 | 106 | 262 | 106 | 90-110 | 0 | 20 | mg/kg | 10.25.18 18:20 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3067717

MB Sample Id: 7664894-1-BLK

Matrix: Solid

LCS Sample Id: 7664894-1-BKS

Prep Method: TX1005P

Date Prep: 10.25.18

LCSD Sample Id: 7664894-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <8.00 | 1000 | 991 | 99 | 1040 | 104 | 70-135 | 5 | 20 | mg/kg | 10.25.18 20:45 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 992 | 99 | 1070 | 107 | 70-135 | 8 | 20 | mg/kg | 10.25.18 20:45 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 95 | | 129 | | 122 | | 70-135 | % | 10.25.18 20:45 |
| o-Terphenyl | 102 | | 103 | | 109 | | 70-135 | % | 10.25.18 20:45 |

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



LT Environmental, Inc.
Horned Toad 36 State #002H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3067717

Parent Sample Id: 603504-001

Matrix: Soil

MS Sample Id: 603504-001 S

Prep Method: TX1005P

Date Prep: 10.25.18

MSD Sample Id: 603504-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <7.99 | 999 | 1090 | 109 | 1020 | 102 | 70-135 | 7 | 20 | mg/kg | 10.25.18 21:42 | |
| Diesel Range Organics (DRO) | <8.12 | 999 | 1130 | 113 | 1060 | 106 | 70-135 | 6 | 20 | mg/kg | 10.25.18 21:42 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 122 | | 118 | | 70-135 | % | 10.25.18 21:42 |
| o-Terphenyl | 118 | | 100 | | 70-135 | % | 10.25.18 21:42 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3067712

MB Sample Id: 7664946-1-BLK

Matrix: Solid

LCS Sample Id: 7664946-1-BKS

Prep Method: SW5030B

Date Prep: 10.25.18

LCSD Sample Id: 7664946-1-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 | 0.0956 | 96 | 0.0962 | 96 | 70-130 | 1 | 35 | mg/kg | 10.25.18 17:51 | |
| Toluene | <0.00200 | 0.100 | 0.0956 | 96 | 0.0959 | 96 | 70-130 | 0 | 35 | mg/kg | 10.25.18 17:51 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0983 | 98 | 0.0985 | 99 | 70-130 | 0 | 35 | mg/kg | 10.25.18 17:51 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.188 | 94 | 0.190 | 95 | 70-130 | 1 | 35 | mg/kg | 10.25.18 17:51 | |
| o-Xylene | <0.00200 | 0.100 | 0.0911 | 91 | 0.0925 | 93 | 70-130 | 2 | 35 | mg/kg | 10.25.18 17:51 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 114 | | 91 | | 95 | | 70-130 | % | 10.25.18 17:51 |
| 4-Bromofluorobenzene | 104 | | 89 | | 89 | | 70-130 | % | 10.25.18 17:51 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3067839

MB Sample Id: 7665012-1-BLK

Matrix: Solid

LCS Sample Id: 7665012-1-BKS

Prep Method: SW5030B

Date Prep: 10.26.18

LCSD Sample Id: 7665012-1-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 | 0.0874 | 87 | 0.0897 | 90 | 70-130 | 3 | 35 | mg/kg | 10.27.18 10:04 | |
| Toluene | <0.00200 | 0.100 | 0.0912 | 91 | 0.0910 | 91 | 70-130 | 0 | 35 | mg/kg | 10.27.18 10:04 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0970 | 97 | 0.0918 | 92 | 70-130 | 6 | 35 | mg/kg | 10.27.18 10:04 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.188 | 94 | 0.173 | 87 | 70-130 | 8 | 35 | mg/kg | 10.27.18 10:04 | |
| o-Xylene | <0.00200 | 0.100 | 0.101 | 101 | 0.0899 | 90 | 70-130 | 12 | 35 | mg/kg | 10.27.18 10:04 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 114 | | 92 | | 93 | | 70-130 | % | 10.27.18 10:04 |
| 4-Bromofluorobenzene | 105 | | 104 | | 96 | | 70-130 | % | 10.27.18 10:04 |

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



LT Environmental, Inc.
Horned Toad 36 State #002H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3067712

Parent Sample Id: 602545-007

Matrix: Soil

MS Sample Id: 602545-007 S

Prep Method: SW5030B

Date Prep: 10.25.18

MSD Sample Id: 602545-007 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 | 0.0775 | 78 | 0.0841 | 84 | 70-130 | 8 | 35 | mg/kg | 10.25.18 18:31 | |
| Toluene | <0.00200 | 0.100 | 0.0789 | 79 | 0.0841 | 84 | 70-130 | 6 | 35 | mg/kg | 10.25.18 18:31 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0813 | 81 | 0.0871 | 87 | 70-130 | 7 | 35 | mg/kg | 10.25.18 18:31 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.157 | 79 | 0.169 | 85 | 70-130 | 7 | 35 | mg/kg | 10.25.18 18:31 | |
| o-Xylene | <0.00200 | 0.100 | 0.0773 | 77 | 0.0833 | 83 | 70-130 | 7 | 35 | mg/kg | 10.25.18 18:31 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 91 | | 94 | | 70-130 | % | 10.25.18 18:31 |
| 4-Bromofluorobenzene | 94 | | 94 | | 70-130 | % | 10.25.18 18:31 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3067839

Parent Sample Id: 603513-022

Matrix: Soil

MS Sample Id: 603513-022 S

Prep Method: SW5030B

Date Prep: 10.26.18

MSD Sample Id: 603513-022 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 | 0.0754 | 75 | 0.0675 | 68 | 70-130 | 11 | 35 | mg/kg | 10.27.18 10:44 | X |
| Toluene | <0.00200 | 0.100 | 0.0748 | 75 | 0.0680 | 68 | 70-130 | 10 | 35 | mg/kg | 10.27.18 10:44 | X |
| Ethylbenzene | <0.00200 | 0.100 | 0.0744 | 74 | 0.0684 | 68 | 70-130 | 8 | 35 | mg/kg | 10.27.18 10:44 | X |
| m,p-Xylenes | <0.00400 | 0.200 | 0.142 | 71 | 0.131 | 66 | 70-130 | 8 | 35 | mg/kg | 10.27.18 10:44 | X |
| o-Xylene | <0.00200 | 0.100 | 0.0714 | 71 | 0.0659 | 66 | 70-130 | 8 | 35 | mg/kg | 10.27.18 10:44 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 95 | | 92 | | 70-130 | % | 10.27.18 10:44 |
| 4-Bromofluorobenzene | 95 | | 98 | | 70-130 | % | 10.27.18 10:44 |

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



Setting the Standard since 1990
 Stafford, Texas (281-240-4200)
 Dallas Texas (214-902-0300)

CHAIN OF C STUDY

Page 1 of 1

San Antonio, Texas (210-508-3334)
 Midland, Texas (432-704-5261)

Phoenix, Arizona (480-356-0900)

www.xenoco.com

| Client / Reporting Information | | | | Project Information | | | | Analytical Information | | | | Matrix Codes | | | |
|--|--------------------------------|--------------|-------|---|--------|--------------|-----|--|------|-------|------|--|------|------|--|
| Company Name / Branch: IT Environmental, Inc. Pelinau Office | | | | Project Name/Number: Horred Tank 36 / 012918129 | | | | Xenoco Quote # | | | | Xenoco Job # | | | |
| Company Address: 3300 W 1st St. Building Unit 103 Midland, TX 79702 | | | | Project Location: EPD, NM 2RP 4850 | | | | Xenoco Job # | | | | 1003506 | | | |
| Email: ababer@itenv.com (432) 704-5178 | | | | Invoice To: XT Energy - Kyle Little | | | | Xenoco Job # | | | | 1003506 | | | |
| Project Contact: Adrian Baker | | | | PO Number: | | | | Xenoco Job # | | | | 1003506 | | | |
| Sample's Name: 1. Lead Acid | | | | Field ID / Point of Collection | | | | Xenoco Job # | | | | 1003506 | | | |
| No. | Field ID / Point of Collection | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | |
| 1 | SW11A | 1' | 10/23 | 15:40 | S | 1 | | | | | | | | | |
| 2 | SW03A | 2' | 10/23 | 10:20 | S | 1 | | | | | | | | | |
| 3 | SW23 | 2' | 10/23 | 11:50 | S | 1 | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| Turnaround Time (Business days) | | | | Data Deliverable Information | | | | Notes: | | | | | | | |
| <input checked="" type="checkbox"/> Same Day TAT | | | | <input type="checkbox"/> 5 Day TAT | | | | <input type="checkbox"/> Level II Std QC | | | | <input type="checkbox"/> Level IV (Full Data Pkg / raw data) | | | |
| <input type="checkbox"/> Next Day EMERGENCY | | | | <input type="checkbox"/> 7 Day TAT | | | | <input type="checkbox"/> Level III Std QC+ Forms | | | | <input type="checkbox"/> TRRP Level IV | | | |
| <input type="checkbox"/> 2 Day EMERGENCY | | | | <input type="checkbox"/> Contract TAT | | | | <input type="checkbox"/> Level 3 (CLP Forms) | | | | <input type="checkbox"/> UST / RG -411 | | | |
| <input type="checkbox"/> 3 Day EMERGENCY | | | | <input type="checkbox"/> TRRP Checklist | | | | | | | | | | | |
| TAT Starts Day received by Lab, if received by 5:00 pm | | | | | | | | | | | | | | | |
| Relinquished by Sampler | | | | SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY | | | | | | | | | | | |
| 1. Relinquished by: <i>[Signature]</i> | | | | Date Time: <i>10/23/11 11:40</i> | | | | Received By: <i>[Signature]</i> | | | | Relinquished By: <i>[Signature]</i> | | | |
| 2. Relinquished by: <i>[Signature]</i> | | | | Date Time: <i>10/23/11 11:40</i> | | | | Received By: <i>[Signature]</i> | | | | Relinquished By: <i>[Signature]</i> | | | |
| 3. Relinquished by: <i>[Signature]</i> | | | | Date Time: <i>10/23/11 11:40</i> | | | | Received By: <i>[Signature]</i> | | | | Relinquished By: <i>[Signature]</i> | | | |
| 4. Relinquished by: <i>[Signature]</i> | | | | Date Time: <i>10/23/11 11:40</i> | | | | Received By: <i>[Signature]</i> | | | | Relinquished By: <i>[Signature]</i> | | | |
| 5. Relinquished by: <i>[Signature]</i> | | | | Date Time: <i>10/23/11 11:40</i> | | | | Received By: <i>[Signature]</i> | | | | Relinquished By: <i>[Signature]</i> | | | |
| Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco 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 Xenoco. A minimum charge of \$75 will be applied to each project. Xenoco's liability will be limited to the cost of samples. Any samples received by Xenoco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract. | | | | | | | | | | | | | | | |

| | |
|--|--|
| ORIGIN ID:CAOA (575) 887-6245 XENCO PAC N MAIL 910 W PIERCE ST CARLSBAD, NM 88220 UNITED STATES US | SHIP DATE: 24OCT18 ACT WGT: 41.00 LB CAD: 101813/06IN/ET 4040 DIMS: 18x12x15 IN BILL RECIPIENT |
| TO HOLD FOR XENCO FEDEX EXPRESS SHIP CENTER FEDEX SHIP CENTER 3600 COUNTY RD 1276 S MIDLAND TX 79711 (806) 794-1296 INV. REF. PO. DEPT. | |
| TRK# 7735 6050 4702 0201 THU - 25 OCT HOLD STANDARD OVERNIGHT HLD MAFA TX-US LBB | |
|   | |

552J1/88FB/DCA5

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Client: LT Environmental, Inc.

Date/ Time Received: 10/25/2018 11:35:00 AM

Work Order #: 603506

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | 3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 10/25/2018

Checklist reviewed by:

Jessica Kramer

Date: 10/25/2018

Analytical Report 604689

for
LT Environmental, Inc.

Project Manager: Adrian Baker

Horned Toad 36 State #002H

09-NOV-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



09-NOV-18

Project Manager: **Adrian Baker**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **604689**

Horned Toad 36 State #002H

Project Address: Rural Eddy, NM 2RP-4850

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 604689. 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. 604689 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,

A handwritten signature in black ink that reads '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.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 604689****LT Environmental, Inc., Arvada, CO**

Horned Toad 36 State #002H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| FS15 | S | 11-05-18 14:00 | 2 ft | 604689-001 |
| SW11B | S | 11-05-18 14:10 | 1 ft | 604689-002 |
| SW25 | S | 11-05-18 14:15 | 6 In | 604689-003 |
| SW24 | S | 11-05-18 14:30 | 1 ft | 604689-004 |

**CASE NARRATIVE****Client Name: LT Environmental, Inc.****Project Name: Horned Toad 36 State #002H**

Project ID:

Work Order Number(s): 604689

Report Date: 09-NOV-18

Date Received: 11/07/2018

Sample receipt non conformances and comments:None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3069146 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 604689-001 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: 604689-001, -002, -003, -004.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 604689

LT Environmental, Inc., Arvada, CO

Project Name: Horned Toad 36 State #002H

Project Id:

Contact: Adrian Baker

Project Location: Rural Eddy, NM 2RP-4850

Date Received in Lab: Wed Nov-07-18 12:23 pm

Report Date: 09-NOV-18

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 604689-001 | 604689-002 | 604689-003 | 604689-004 | | |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|--|--|
| | <i>Field Id:</i> | FS15 | SW11B | SW25 | SW24 | | |
| | <i>Depth:</i> | 2- ft | 1- ft | 6- In | 1- ft | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | | |
| | <i>Sampled:</i> | Nov-05-18 14:00 | Nov-05-18 14:10 | Nov-05-18 14:15 | Nov-05-18 14:30 | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Nov-08-18 16:00 | Nov-08-18 16:00 | Nov-08-18 16:00 | Nov-08-18 16:00 | | |
| | <i>Analyzed:</i> | Nov-08-18 21:38 | Nov-08-18 22:00 | Nov-08-18 22:22 | Nov-08-18 22:44 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Benzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | | |
| Toluene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | | |
| Ethylbenzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | | |
| m,p-Xylenes | | <0.00398 0.00398 | <0.00399 0.00399 | <0.00403 0.00403 | <0.00401 0.00401 | | |
| o-Xylene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | | |
| Total Xylenes | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | | |
| Total BTEX | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | | |
| Inorganic Anions by EPA 300 | <i>Extracted:</i> | Nov-07-18 14:45 | Nov-07-18 14:45 | Nov-07-18 14:45 | Nov-07-18 14:45 | | |
| | <i>Analyzed:</i> | Nov-08-18 10:11 | Nov-07-18 15:27 | Nov-07-18 15:39 | Nov-07-18 15:44 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Chloride | | <5.00 5.00 | 7.47 4.99 | 11.8 4.96 | 18.9 4.96 | | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Nov-07-18 14:00 | Nov-07-18 14:00 | Nov-07-18 14:00 | Nov-07-18 14:00 | | |
| | <i>Analyzed:</i> | Nov-08-18 02:28 | Nov-08-18 02:46 | Nov-08-18 07:28 | Nov-08-18 07:45 | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | |
| Diesel Range Organics (DRO) | | 18.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | |
| Total TPH | | 18.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Jessica Kramer
Project Assistant



Certificate of Analytical Results 604689

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **FS15**
 Lab Sample Id: 604689-001

Matrix: Soil
 Date Collected: 11.05.18 14.00

Date Received: 11.07.18 12.23
 Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3069006

Date Prep: 11.07.18 14.45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 11.08.18 10.11 | U | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3068984

Date Prep: 11.07.18 14.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 11.08.18 02.28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 18.0 | 15.0 | mg/kg | 11.08.18 02.28 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 11.08.18 02.28 | U | 1 |
| Total TPH | PHC635 | 18.0 | 15.0 | mg/kg | 11.08.18 02.28 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-135 | 11.08.18 02.28 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 11.08.18 02.28 | |



Certificate of Analytical Results 604689



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **FS15**
Lab Sample Id: 604689-001

Matrix: Soil
Date Collected: 11.05.18 14.00

Date Received: 11.07.18 12.23
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.08.18 16.00

Basis: Wet Weight

Seq Number: 3069146

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 11.08.18 21.38 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 11.08.18 21.38 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 11.08.18 21.38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 11.08.18 21.38 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 11.08.18 21.38 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 11.08.18 21.38 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 11.08.18 21.38 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 73 | % | 70-130 | 11.08.18 21.38 | | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 11.08.18 21.38 | | |



Certificate of Analytical Results 604689



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW11B**
Lab Sample Id: 604689-002

Matrix: Soil
Date Collected: 11.05.18 14.10

Date Received: 11.07.18 12.23
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3069006

Date Prep: 11.07.18 14.45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 7.47 | 4.99 | mg/kg | 11.07.18 15.27 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3068984

Date Prep: 11.07.18 14.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 11.08.18 02.46 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 11.08.18 02.46 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 11.08.18 02.46 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 11.08.18 02.46 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-135 | 11.08.18 02.46 | |
| o-Terphenyl | 84-15-1 | 84 | % | 70-135 | 11.08.18 02.46 | |



Certificate of Analytical Results 604689

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW11B**
 Lab Sample Id: 604689-002

Matrix: Soil
 Date Collected: 11.05.18 14.10

Date Received: 11.07.18 12.23
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.08.18 16.00

Basis: Wet Weight

Seq Number: 3069146

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.00 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 11.08.18 22.00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.00 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.00 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 11.08.18 22.00 | | |
| 4-Bromofluorobenzene | 460-00-4 | 70 | % | 70-130 | 11.08.18 22.00 | | |



Certificate of Analytical Results 604689

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW25**
 Lab Sample Id: 604689-003

Matrix: Soil
 Date Collected: 11.05.18 14.15

Date Received: 11.07.18 12.23
 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3069006

Date Prep: 11.07.18 14.45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 11.8 | 4.96 | mg/kg | 11.07.18 15.39 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3068984

Date Prep: 11.07.18 14.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 11.08.18 07.28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 11.08.18 07.28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 11.08.18 07.28 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 11.08.18 07.28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-135 | 11.08.18 07.28 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 11.08.18 07.28 | |



Certificate of Analytical Results 604689



LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW25**
Lab Sample Id: 604689-003

Matrix: Soil
Date Collected: 11.05.18 14.15

Date Received: 11.07.18 12.23
Sample Depth: 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.08.18 16.00

Basis: Wet Weight

Seq Number: 3069146

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 11.08.18 22.22 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 11.08.18 22.22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 11.08.18 22.22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 11.08.18 22.22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 11.08.18 22.22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 11.08.18 22.22 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 11.08.18 22.22 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 73 | % | 70-130 | 11.08.18 22.22 | | |
| 1,4-Difluorobenzene | 540-36-3 | 109 | % | 70-130 | 11.08.18 22.22 | | |



Certificate of Analytical Results 604689

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW24**
 Lab Sample Id: 604689-004

Matrix: Soil
 Date Collected: 11.05.18 14.30

Date Received: 11.07.18 12.23
 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3069006

Date Prep: 11.07.18 14.45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 18.9 | 4.96 | mg/kg | 11.07.18 15.44 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3068984

Date Prep: 11.07.18 14.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 11.08.18 07.45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 11.08.18 07.45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 11.08.18 07.45 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 11.08.18 07.45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 11.08.18 07.45 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-135 | 11.08.18 07.45 | |



Certificate of Analytical Results 604689

LT Environmental, Inc., Arvada, CO

Horned Toad 36 State #002H

Sample Id: **SW24**
 Lab Sample Id: 604689-004

Matrix: Soil
 Date Collected: 11.05.18 14.30

Date Received: 11.07.18 12.23
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.08.18 16.00

Basis: Wet Weight

Seq Number: 3069146

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.44 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 11.08.18 22.44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.44 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 11.08.18 22.44 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 11.08.18 22.44 | | |
| 4-Bromofluorobenzene | 460-00-4 | 73 | % | 70-130 | 11.08.18 22.44 | | |



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.
Horned Toad 36 State #002H

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3069006

MB Sample Id: 7665672-1-BLK

Matrix: Solid

LCS Sample Id: 7665672-1-BKS

Prep Method: E300P

Date Prep: 11.07.18

LCSD Sample Id: 7665672-1-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 | 245 | 98 | 243 | 97 | 90-110 | 1 | 20 | mg/kg | 11.07.18 15:01 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3069006

Parent Sample Id: 604543-011

Matrix: Soil

MS Sample Id: 604543-011 S

Prep Method: E300P

Date Prep: 11.07.18

MSD Sample Id: 604543-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 213 | 250 | 446 | 93 | 439 | 90 | 90-110 | 2 | 20 | mg/kg | 11.08.18 10:43 | |

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3069006

Parent Sample Id: 604689-001

Matrix: Soil

MS Sample Id: 604689-001 S

Prep Method: E300P

Date Prep: 11.07.18

MSD Sample Id: 604689-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | <0.858 | 250 | 259 | 104 | 260 | 104 | 90-110 | 0 | 20 | mg/kg | 11.08.18 10:17 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3068984

MB Sample Id: 7665710-1-BLK

Matrix: Solid

LCS Sample Id: 7665710-1-BKS

Prep Method: TX1005P

Date Prep: 11.07.18

LCSD Sample Id: 7665710-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <8.00 | 1000 | 998 | 100 | 1010 | 101 | 70-135 | 1 | 20 | mg/kg | 11.07.18 20:55 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 1090 | 109 | 1100 | 110 | 70-135 | 1 | 20 | mg/kg | 11.07.18 20:55 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 97 | | 123 | | 117 | | 70-135 | % | 11.07.18 20:55 |
| o-Terphenyl | 100 | | 97 | | 96 | | 70-135 | % | 11.07.18 20:55 |

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



LT Environmental, Inc.
Horned Toad 36 State #002H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3068984

Parent Sample Id: 604544-001

Matrix: Soil

MS Sample Id: 604544-001 S

Prep Method: TX1005P

Date Prep: 11.07.18

MSD Sample Id: 604544-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <7.99 | 999 | 889 | 89 | 907 | 91 | 70-135 | 2 | 20 | mg/kg | 11.07.18 21:51 | |
| Diesel Range Organics (DRO) | 56.7 | 999 | 947 | 89 | 973 | 92 | 70-135 | 3 | 20 | mg/kg | 11.07.18 21:51 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 104 | | 106 | | 70-135 | % | 11.07.18 21:51 |
| o-Terphenyl | 85 | | 85 | | 70-135 | % | 11.07.18 21:51 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3069146

MB Sample Id: 7665848-1-BLK

Matrix: Solid

LCS Sample Id: 7665848-1-BKS

Prep Method: SW5030B

Date Prep: 11.08.18

LCSD Sample Id: 7665848-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00202 | 0.101 | 0.0923 | 91 | 0.0880 | 88 | 70-130 | 5 | 35 | mg/kg | 11.08.18 19:30 | |
| Toluene | <0.00202 | 0.101 | 0.0781 | 77 | 0.0759 | 76 | 70-130 | 3 | 35 | mg/kg | 11.08.18 19:30 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0904 | 90 | 0.0866 | 87 | 70-130 | 4 | 35 | mg/kg | 11.08.18 19:30 | |
| m,p-Xylenes | <0.00102 | 0.202 | 0.180 | 89 | 0.172 | 86 | 70-130 | 5 | 35 | mg/kg | 11.08.18 19:30 | |
| o-Xylene | <0.00202 | 0.101 | 0.0933 | 92 | 0.0889 | 89 | 70-130 | 5 | 35 | mg/kg | 11.08.18 19:30 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 111 | | 102 | | 116 | | 70-130 | % | 11.08.18 19:30 |
| 4-Bromofluorobenzene | 70 | | 74 | | 74 | | 70-130 | % | 11.08.18 19:30 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3069146

Parent Sample Id: 604689-001

Matrix: Soil

MS Sample Id: 604689-001 S

Prep Method: SW5030B

Date Prep: 11.08.18

MSD Sample Id: 604689-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00391 | 0.195 | 0.0767 | 39 | 0.0702 | 70 | 70-130 | 9 | 35 | mg/kg | 11.08.18 20:13 | X |
| Toluene | <0.00391 | 0.195 | 0.0623 | 32 | 0.0591 | 59 | 70-130 | 5 | 35 | mg/kg | 11.08.18 20:13 | X |
| Ethylbenzene | <0.00391 | 0.195 | 0.0656 | 34 | 0.0672 | 67 | 70-130 | 2 | 35 | mg/kg | 11.08.18 20:13 | X |
| m,p-Xylenes | <0.00781 | 0.391 | 0.120 | 31 | 0.130 | 65 | 70-130 | 8 | 35 | mg/kg | 11.08.18 20:13 | X |
| o-Xylene | <0.00391 | 0.195 | 0.0634 | 33 | 0.0682 | 68 | 70-130 | 7 | 35 | mg/kg | 11.08.18 20:13 | X |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 103 | | 104 | | 70-130 | % | 11.08.18 20:13 |
| 4-Bromofluorobenzene | 74 | | 79 | | 70-130 | % | 11.08.18 20:13 |

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



Setting the Standard since 1990
Stafford, Texas (261-240-4200)
Dallas Texas (214-902-0300)

CHAIN OF CUSTODY
Page 1 of 1

Page 1 of 1

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

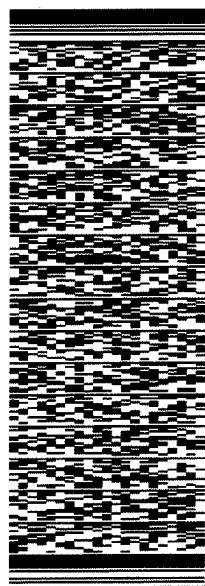
Phoenix, Arizona (480-355-0900)

| Client / Reporting Information Company Name / Branch: <u>IT Environmental, Inc.</u> <u>Pelican Office</u> Company Address: <u>300 W 1st St. Building Unit 103</u> <u>Midway, TX 75270</u> Email: <u>gaberg@knox.com</u> <u>(432) 704-5178</u> Project Contact: <u>Adrian Baker</u> Sampler's Name: _____ | | | | Project Information Project Name/Number: <u>Horned Toad 36 State #2024</u> Project Location: <u>Rural Eddy, NM</u> <u>2RP4850</u> Invoiced To: <u>XTO Energy - Kyle L. Helle</u> PO Number: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------|--------------|------|--|--------------------------------|--------------|------|-----------------|--------|--------------|------|-----------------|------|-------|------|--------|------|------|---|------|----|------|-------|---|---|--|--|--|--|--|--|--|--|---|-------|----|--|-------|---|---|--|--|--|--|--|--|--|--|---|------|----|--|-------|---|---|--|--|--|--|--|--|--|--|---|------|----|--|-------|---|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Analytical Information Matrix Codes: <u>BTEX (only BTEX) 8021</u> <u>TPH (DRO GRO MPO) 8015</u> <u>Chloride (300.00)</u> | | | | Matrix Codes W = Water S = Solid/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water WI = Wipe O = Oil WW = Waste Water A = Air | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Data / Point of Collection <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Field ID / Point of Collection</th> <th>Sample Depth</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th># of bottles</th> <th>HCl</th> <th>NaOH/Zn Acetate</th> <th>HNO3</th> <th>H2SO4</th> <th>NaOH</th> <th>NaHSO4</th> <th>MEOH</th> <th>NONE</th> </tr> </thead> <tbody> <tr><td>1</td><td>FS15</td><td>2'</td><td>11/5</td><td>14:00</td><td>S</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>SW11B</td><td>1'</td><td></td><td>14:10</td><td>S</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>SW25</td><td>6"</td><td></td><td>14:15</td><td>S</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>SW24</td><td>1'</td><td></td><td>14:30</td><td>S</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | | | No. | Field ID / Point of Collection | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | 1 | FS15 | 2' | 11/5 | 14:00 | S | 1 | | | | | | | | | 2 | SW11B | 1' | | 14:10 | S | 1 | | | | | | | | | 3 | SW25 | 6" | | 14:15 | S | 1 | | | | | | | | | 4 | SW24 | 1' | | 14:30 | S | 1 | | | | | | | | | 5 | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 8 | | | | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | 10 | | | | | | | | | | | | | | | Field Comments _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ | | | |
| No. | Field ID / Point of Collection | Sample Depth | Date | Time | Matrix | # of bottles | HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FS15 | 2' | 11/5 | 14:00 | S | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SW11B | 1' | | 14:10 | S | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | SW25 | 6" | | 14:15 | S | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SW24 | 1' | | 14:30 | S | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turnaround Time (Business days) <input checked="" type="checkbox"/> Same Day TAT <input type="checkbox"/> 5 Day TAT <input type="checkbox"/> Next Day EMERGENCY <input type="checkbox"/> 7 Day TAT <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> Contract TAT <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> TRRP Checklist | | | | Data Deliverable Information <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level IV (Full Data Pkg / raw data) <input type="checkbox"/> Level III Std QC+ Forms <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level 3 (CLP Forms) <input type="checkbox"/> UST / RG 411 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAT Starts Day received by Lab, if received by 5:00 pm Relinquished by Sampler: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ | | | | DATE CUSTOMER MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Received By: _____ Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____ Relinquished By: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature of Client Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract. | | | | FED-EX / UPS Tracking # <u>7730603624319</u> On Ice <input checked="" type="checkbox"/> Cooler Temp. <u>Pharm. Corr. Factor</u> <u>0.8 N/A 8-2</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------------------------|-------------------------|
| ORIGIN ID:CAOA (575) 887-6245 | SHIP DATE: 06NOV18 |
| XENCO | ACT WGT: 23.00 LB |
| PAC N MAIL | CAO: 101813/06/NET 4040 |
| 910 W PIERCE ST | DIMS: 24x14x15 IN |
| CARLSBAD, NM 88220 | BILL RECIPIENT |
| UNITED STATES US | |

| | |
|-------|---------------------------|
| TO | HOLD FOR XENCO |
| | FEDEX EXPRESS SHIP CENTER |
| | FEDEX SHIP CENTER |
| | 3600 COUNTY RD 1276 S |
| | MIDLAND TX 79711 |
| REF | (800) 794-1296 |
| PO: | |
| DEPT: | |

| | | |
|---------|----------------|--------------------|
| TRK# | 7736 6362 4319 | WED - 07 NOV HOLD |
| 0201 | | STANDARD OVERNIGHT |
| 41 MAFA | | HLD |
| | MAFA | |
| | TX-US | |
| | LBB | |



552J3/C3B2/DCA5

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/07/2018 12:23:00 PM

Work Order #: 604689

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

| | |
|---|-----|
| #1 *Temperature of cooler(s)? | .3 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6 *Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 11/07/2018

Checklist reviewed by:

Jessica Kramer


Date: 11/07/2018

ATTACHMENT 3: PHOTO LOG






View to the northeast of the excavation (2RP-4850)

| | | |
|--------------------|--|--|
| Project: 012918129 | XTO Energy, Inc. Horned Toad 36 State #002H |  Advancing Opportunity |
| October 23, 2018 | Photographic Log | |




View to the west of the excavation (2RP-4850)

| | | |
|--------------------|--|---|
| Project: 012918129 | XTO Energy, Inc. Horned Toad 36 State #002H |  |
| October 23, 2018 | Photographic Log | |



View to the east of the excavation (2RP-4850)

| | | |
|-----------------------|--|--|
| Project: 012918129 | XTO Energy, Inc. Horned Toad 36 State #002H |  Advancing Opportunity |
| October 23, 2018 | Photographic Log | |

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 190470

CONDITIONS

| | |
|--|--|
| Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707 | OGRID: 373075 |
| | Action Number: 190470 |
| | Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| bhall | None | 2/24/2023 |