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	NRM2005160694
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.10954 Longitude -103.88942
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 21 Brushy Draw 903H	Site Type Production Well
Date Release Discovered 02/05/2020	API# *(if applicable)* 30-015-45703 Poker Lake Unit 21 Brushy Draw 903H

Unit Letter	Section	Township	Range	County
N	21	25S	30E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Byron Wayne & Janey Loree Paschal)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Drilling Mud-Brine-Diesel Emulsion	Volume/Weight Released (provide units) 128 Barrels	Volume/Weight Recovered (provide units) 127.50 Barrels

Cause of Release: A valve on the manifold was left opened to prevent freezing during the night. The following day, while transferring fluid from the frac tanks to the drilling rig mud system, 128 barrels were spilled onto the drilling pad. 127.5 barrels were recovered. A third party contractor has been retained to complete remediation activities.

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Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of a volume of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes by Amy Ruth to Mike Bratcher; Rob Hamlet; Victoria Venegas; 'Griswold, Jim, EMNRD' on Friday, February 7, 2020 at 9:52 AM via email.	

Initial Response

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

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

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

N/A

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Kyle Littrell Date: 2-20-20

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Ramona Marcus Date: 02/20/2020

NRM2005160694

Location:	Poker Lake Unit 21 Brushy Draw 903H	
Spill Date:	2/5/2020	
Area 1		
Approximate Area =	2260.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Water Based Drilling Mud =	128.00	bbls
TOTAL VOLUME OF LEAK		
Total Water Based Drilling Mud =	**128.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Water Based Drilling Mud =	**127.50**	**bbls**

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>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.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 11/30/20

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
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 Supervisor

Signature: Date: 11/30/20

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Date:

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

Closure Approved by: Date:

Printed Name: Title:

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
Facility ID	
Application ID	

Closure

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☒ Description of remediation activities

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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 11/30/20

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Robert Hamlet Date: 4/20/2021

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: Robert Hamlet Date: 4/20/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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	NRM2005160694
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.10954 Longitude -103.88942
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 21 Brushy Draw 903H	Site Type Production Well
Date Release Discovered 02/05/2020	API# *(if applicable)* 30-015-45703 Poker Lake Unit 21 Brushy Draw 903H

Unit Letter	Section	Township	Range	County
N	21	25S	30E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Byron Wayne & Janey Loree Paschal)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Drilling Mud-Brine-Diesel Emulsion	Volume/Weight Released (provide units) 128 Barrels	Volume/Weight Recovered (provide units) 127.50 Barrels

Cause of Release: A valve on the manifold was left opened to prevent freezing during the night. The following day, while transferring fluid from the frac tanks to the drilling rig mud system, 128 barrels were spilled onto the drilling pad. 127.5 barrels were recovered. A third party contractor has been retained to complete remediation activities.

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of a volume of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes by Amy Ruth to Mike Bratcher; Rob Hamlet; Victoria Venegas; 'Griswold, Jim, EMNRD' on Friday, February 7, 2020 at 9:52 AM via email.	

Initial Response

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

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

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

N/A

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Kyle Littrell Date: 2-20-20

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Ramona Marcus Date: 02/20/2020

NRM2005160694

Location:	Poker Lake Unit 21 Brushy Draw 903H	
Spill Date:	2/5/2020	
Area 1		
Approximate Area =	2260.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Water Based Drilling Mud =	128.00	bbls
TOTAL VOLUME OF LEAK		
Total Water Based Drilling Mud =	**128.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Water Based Drilling Mud =	**127.50**	**bbls**

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>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.

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 11/30/20

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005160694
District RP	
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 Supervisor

Signature: Date: 11/30/20

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Date:

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

Closure Approved by: Date:

Printed Name: Title:

WSP USA
3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

November 30, 2020

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: Closure Request
Poker Lake Unit 21 Brushy Draw 903H
Incident Number NRM2005160694
Eddy County, New Mexico

To Whom it May Concern:

WSP USA, Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Poker Lake Unit (PLU) 21 Brushy Draw 903H (Site) in Unit N, Section 21, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of drilling mud brine at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NRM2005160694.

RELEASE BACKGROUND

On February 05, 2020, a valve on the manifold was left open to prevent freezing during the night. The following day, while transferring fluid from the frac tanks to the drilling rig mud system fluid, the valve was left open, which resulted in the release of 128 bbls (barrels) of drilling mud brine onto the caliche well pad. XTO dispatched a hydrovacuum truck and approximately 127.5 bbls of drilling mud brine were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on February 7, 2020 and then reported the release on a Release Notification and Corrective Action Form C-141 (Form C-141) on February 20, 2020. NMOCD subsequently assigned Incident Number NRM2005160694.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is United States Geologic Survey (USGS) 320629103533001, located approximately 0.2 miles southwest of the Site. The water well has a depth to groundwater of 264 feet bgs and

a total depth of 280 feet. Ground surface elevation at the water well location is 3,209 feet above mean sea level (AMSL), which is approximately 26 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included as Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash located approximately 397 feet Southeast of the Site. There is a mapped unnamed dry wash 159 feet to the south of the Site. However, this dry wash is not considered a significant watercourse because it is not continuous and is not a tributary to a named watercourse. 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. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

Once hydraulic fracturing and flowback operations were complete, WSP personnel visited the Site to evaluate the release extent on October 15, 2020. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS). WSP personnel collected and field screened four preliminary soil assessment samples at three locations (SS01 through SS04) within the release extent. Locations of soil samples are presented on Figure 2.

The four soil samples were collected at a depth of 0.5 feet below grade surface (bgs). Initial assessment soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC)

procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

According to laboratory analytical results, TPH-GRO, TPH-DRO and TPH were reported at concentrations above the Closure Criteria in the preliminary assessment soil samples SS01, SS02, and SS04. Soil concentrations of benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride in preliminary samples SS03 were compliant with Closure Criteria for the Site. Based on field screening results and laboratory analytical results, soil delineation activities seemed warranted in order to further assess the presence or absence of impacted soil appeared to be warranted for the release area.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On October 29, 2020, WSP oversaw delineation activities to assess the presence or absence of impacted soil as indicated by initial field screenings and preliminary soil sample results. Three potholes (PH01 through PH03) were advanced to a depth of 4 feet bgs and two discrete soil samples were collected from each pothole utilizing a track mounted backhoe and related equipment. Delineation soil samples were collected at 1 foot and 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab© test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The locations of delineation potholes (PH01 through PH03) are presented on Figure 3. The discrete delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico. Photographic documentation was conducted during the visit to the Site and is included in Attachment 3.

According to laboratory analytical results, TPH-GRO, TPH-DRO were reported at concentrations above the Closure Criteria in delineation soil sample PH01, at 1-foot bgs. Soil concentrations of benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant in delineation soil samples PH01A, PH02/PH02A, and PH03/PH03A. Additionally, delineation soil samples PH01A, PH02A, and PH03A were compliant with the reclamation standard of 600 mg/kg.

Based on the field screenings and laboratory analytical results, WSP proceeded with excavation activities in order to remove impacted soil in the affected area surrounding SS01, SS02 and SS04, along with PH01. Following removal of impacted soil, WSP collected 5-point composite soil samples at least every 200 square feet from the sidewalls and floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. A total of twelve composite floor soil samples (FS01 through FS12) and four sidewall samples (SW01 through SW04) were collected from the excavation. The floor samples were collected at a depth of 2 feet

bgs and sidewalls were collected from depths ranging from ground surface to 2 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above. The locations of final excavation confirmation sample are presented on Figure 4.

The excavation extent totaled approximately 2,200 square feet. A total of approximately 165 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria at the completion of the excavation activities in all composite floor and sidewall soil samples. In addition, analytical results for five of the six soil samples from the three potholes (PH01 through PH03) were compliant with the Site Closure Criteria. The laboratory analytical results are summarized in Table 1 and the laboratory data reports are provided in Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 5, 2020, release of drilling mud brine. Based on the laboratory analytical results for the preliminary soil samples, impacted soil was excavated. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria.

Based on the excavation soil sample analytical results, no further remediation was required. Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. As such, XTO respectfully requests NFA for Incident Number NRM2005160694.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka
Assistant Consultant, Environmental Scientist

Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kyle Littrell, XTO
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD
Jim Amos, Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Lithologic/Sampling Log
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports

FIGURES

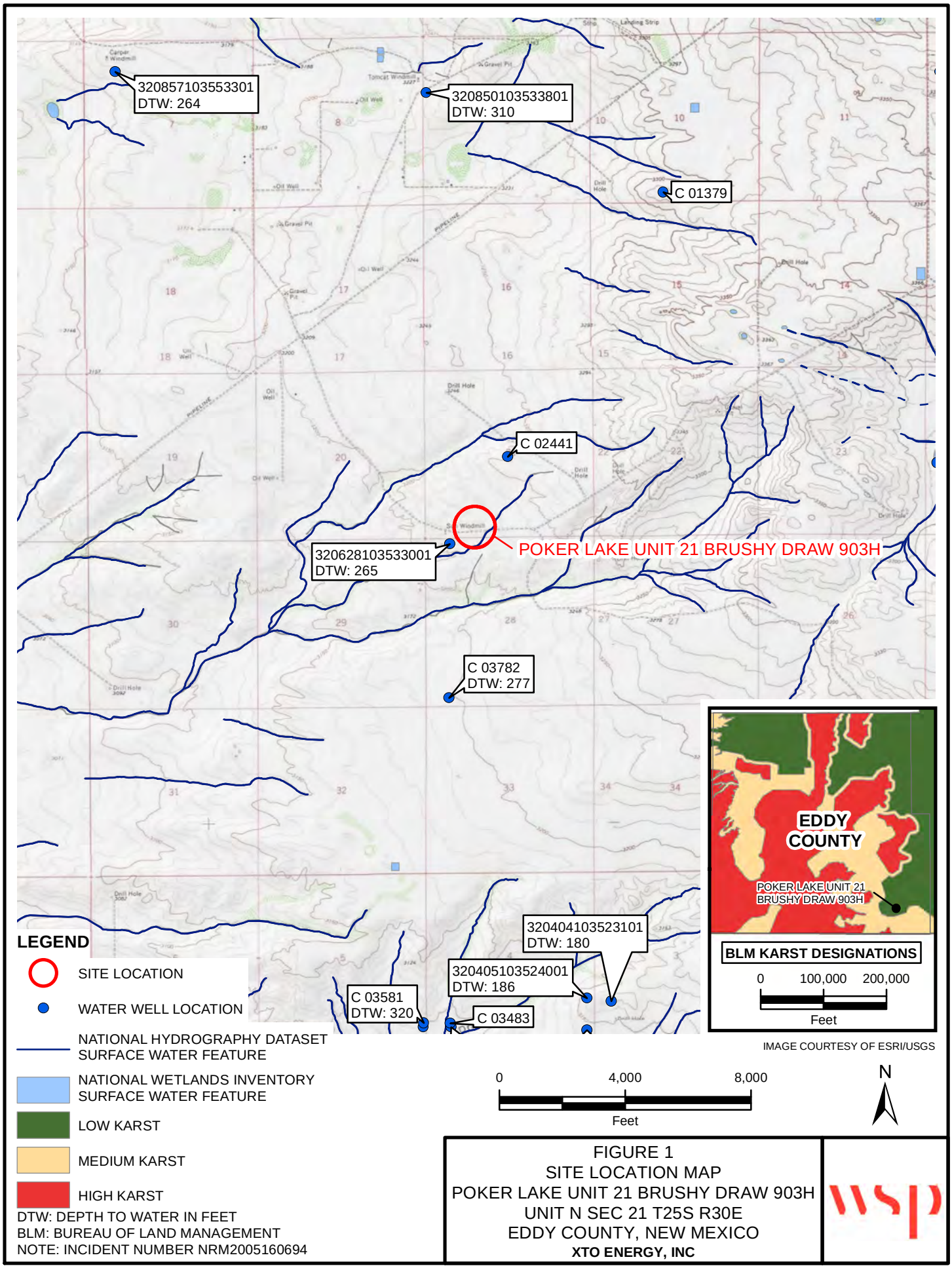


FIGURE 1
SITE LOCATION MAP
POKER LAKE UNIT 21 BRUSHY DRAW 903H
UNIT N SEC 21 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC

P:\XTO Energy\GIS\MXD\012920031_PLU 21 BD 903H\012920031_FIG01_SL_RECEPTOR_2020.mxd

IMAGE COURTESY OF ESRI

LEGEND

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT
- EARTHEN BERM

NOTE: INCIDENT NUMBER NRM2005160694
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

0 50 100
Feet

N

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
POKER LAKE UNIT 21 BRUSHY DRAW 903H
UNIT N SEC 21 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920031_PLU 21 BD 903H\012920031_FIG02_PRELIMINARY_2020.mxd

LEGEND

IMAGE COURTESY OF ESRI

DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA

DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT

EARTHEN BERM

0 50 100

Feet

N

NOTE: INCIDENT NUMBER NRM2005160694
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
POKER LAKE UNIT 21 BRUSHY DRAW 903H
UNIT N SEC 21 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920031_PLU 21 BD 903H\012920031_FIG03_DELINEATION_2020.mxd

LEGEND

FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

EXCAVATION EXTENT

EARTHEN BERM

NOTE: INCIDENT NUMBER NRM2005160694
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 30 60
Feet

N

FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
POKER LAKE UNIT 21 BRUSHY DRAW 903H
UNIT N SEC 21 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920031_PLU 21 BD 903H\012920031_FIG04_EXCAVATION_2020.mxd

TABLES

Table 1

Soil Analytical Results
Poker Lake Unit 21 Brushy Draw 903H
Incident Number NRM2005160694
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
Surface Samples										
SS01	10/15/2020	0.5	<0.0192	<0.0192	<250	23,500	<250	**23,500**	**23,500**	1,150
SS02	10/15/2020	0.5	<0.0192	<0.0192	<250	21,500	<250	**21,500**	**21,500**	3,440
SS03	10/15/2020	0.5	<0.0196	<0.0196	<249	10,000	<249	**10,000**	**10,000**	4,950
SS04	10/15/2020	0.5	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	1,080
Delineation Samples										
PH01	10/29/2020	1	<0.00200	<0.00200	<49.8	1,150	<49.8	**1,150**	1,150	559
PH01A	10/29/2020	4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	190
PH02	10/29/2020	1	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	496
PH02A	10/29/2020	4	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	18.9
PH03	10/29/2020	1	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	174
PH03A	10/29/2020	4	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	108
Excavation Floor Samples										
FS01	10/29/2020	2	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	797
FS02	10/29/2020	2	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	781
FS03	10/29/2020	2	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	610
FS04	10/29/2020	2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	116
FS05	10/29/2020	2	<0.00202	<0.00202	<50.3	52.2	<50.3	52.2	52.2	255
FS06	10/29/2020	2	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	88.9
FS07	10/29/2020	2	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	74.9
FS08	10/29/2020	2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	47.5

Table 1

Soil Analytical Results
Poker Lake Unit 21 Brushy Draw 903H
Incident Number NRM2005160694
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
FS09	10/29/2020	2	<0.00198	<0.00198	<50.2	54.4	<50.2	54.4	54.4	592
FS10	10/29/2020	2	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	44.1
FS11	10/29/2020	2	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	122
FS12	10/29/2020	2	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	66.0
Excavation Sidewall Samples										
SW01	10/29/2020	0 - 2	<0.00196	<0.00196	<50.2	<50.2	<50.2	<50.2	<50.2	981
SW02	10/29/2020	0 - 2	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	373
SW03	10/29/2020	0 - 2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	642
SW04	10/29/2020	0 - 2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	43.5

ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - motor oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
Greyed data represents samples that were excavated

ATTACHMENT 1: REFERENCED WELL RECORD

USGS 320628103533001 25S.30E.21.333424

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°06'28", Longitude 103°53'30" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 288 feet
Land surface altitude: 3,207 feet above NAVD88.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

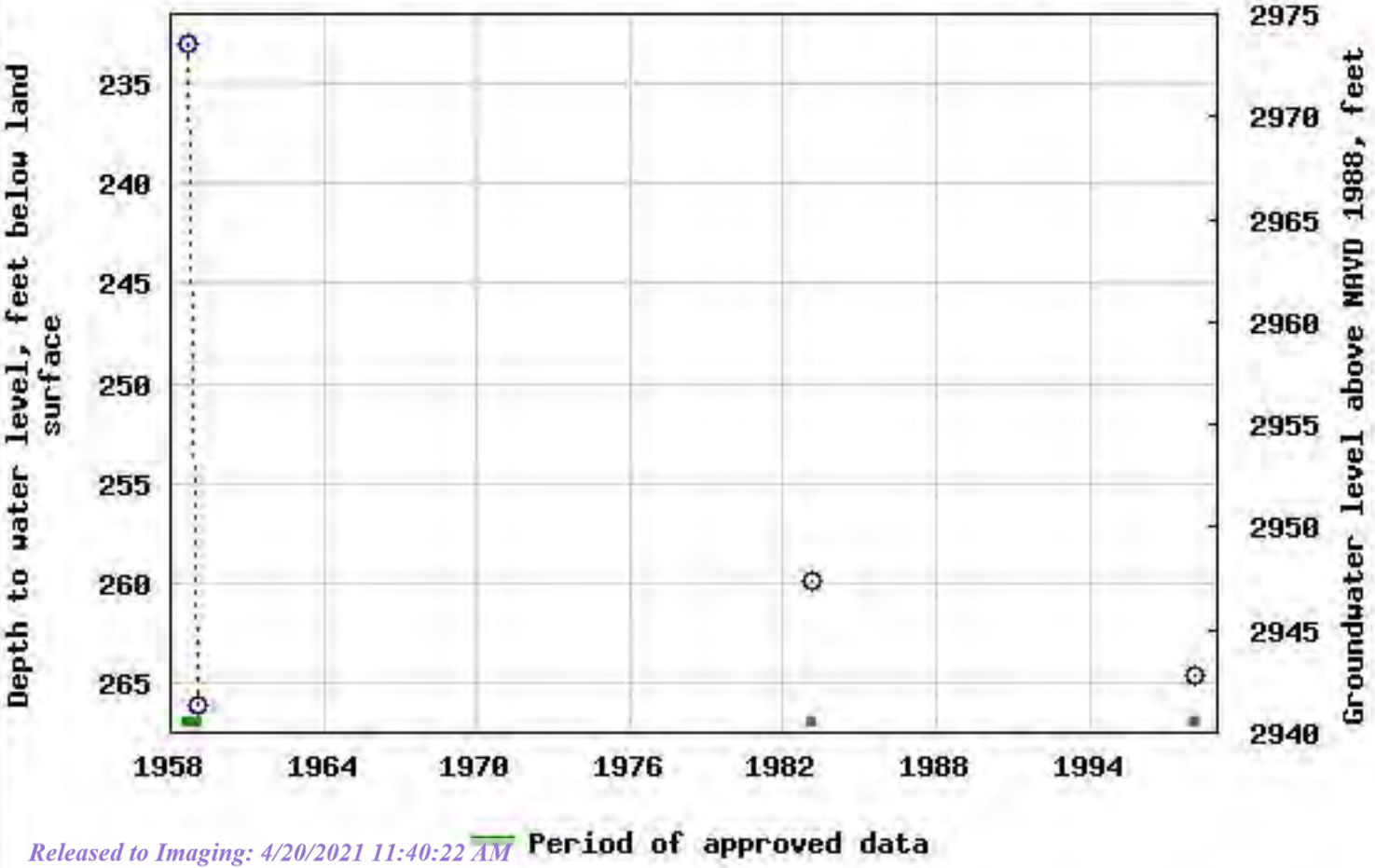
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-21	1998-01-28	4
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 320628103533001 25S.30E.21.333424



USGS 320404103523101 26S.30E.05.343414

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°04'04", Longitude 103°52'31" NAD27
Eddy County, New Mexico , Hydrologic Unit 13070001
Well depth: 775 feet
Land surface altitude: 3,173 feet above NAVD88.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

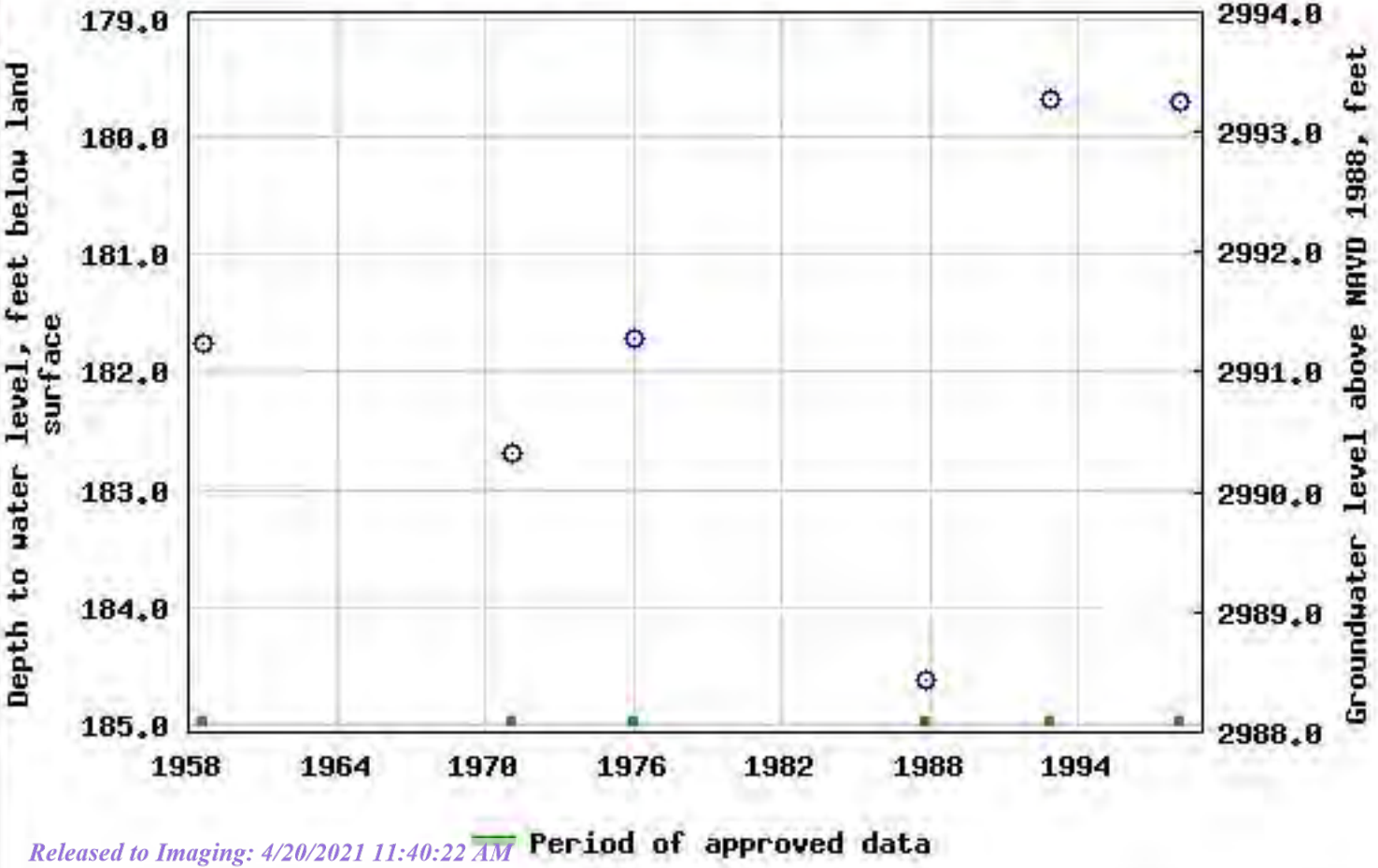
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-18	1998-01-28	6
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 320404103523101 26S.30E.05.343414



USGS 320405103524001 26S.30E.05.33441

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°04'05", Longitude 103°52'40" NAD27
Eddy County, New Mexico , Hydrologic Unit 13070001
Well depth: 770 feet
Land surface altitude: 3,159 feet above NAVD88.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

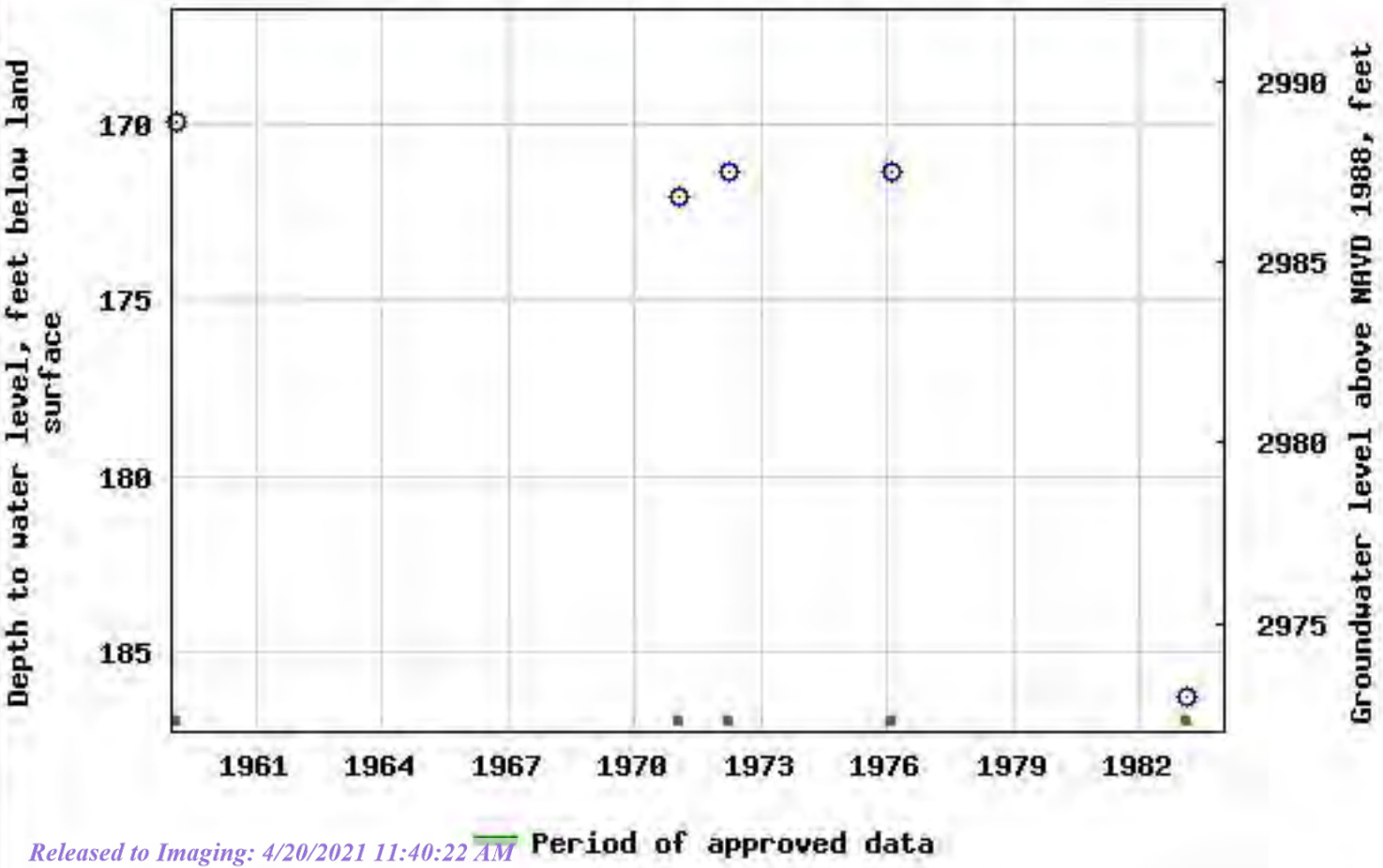
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-18	1983-02-15	5
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 320405103524001 26S.30E.05.33441



USGS 320850103533801 25S.30E.08.224444

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°08'50", Longitude 103°53'38" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: not determined.
Land surface altitude: 3,232 feet above NAVD88.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

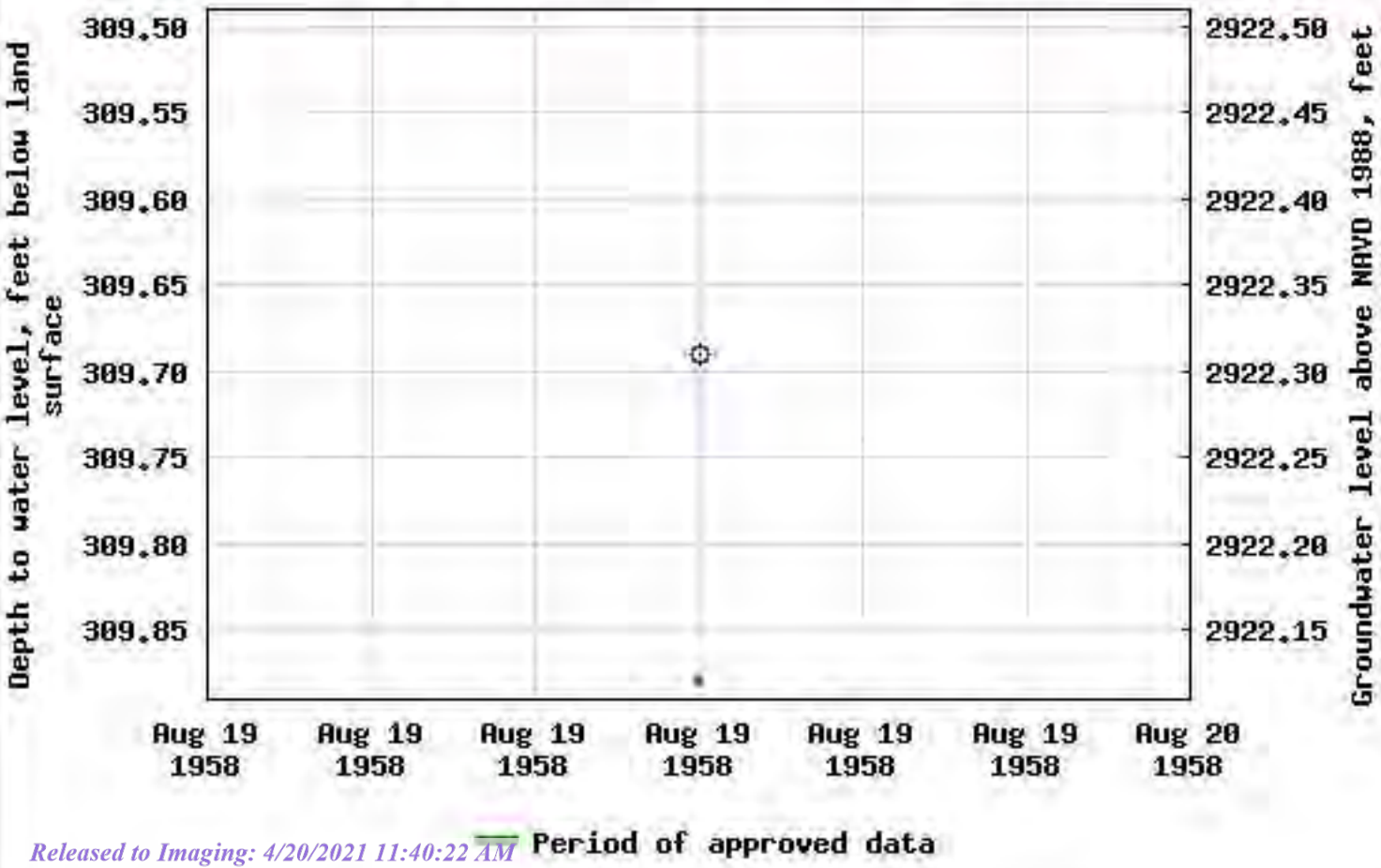
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-19	1958-08-19	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 320850103533801 25S.30E.08.224444



USGS 320857103553301 25S.30E.07.112331

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°08'57", Longitude 103°55'33" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 385 feet
Land surface altitude: 3,169 feet above NAVD88.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

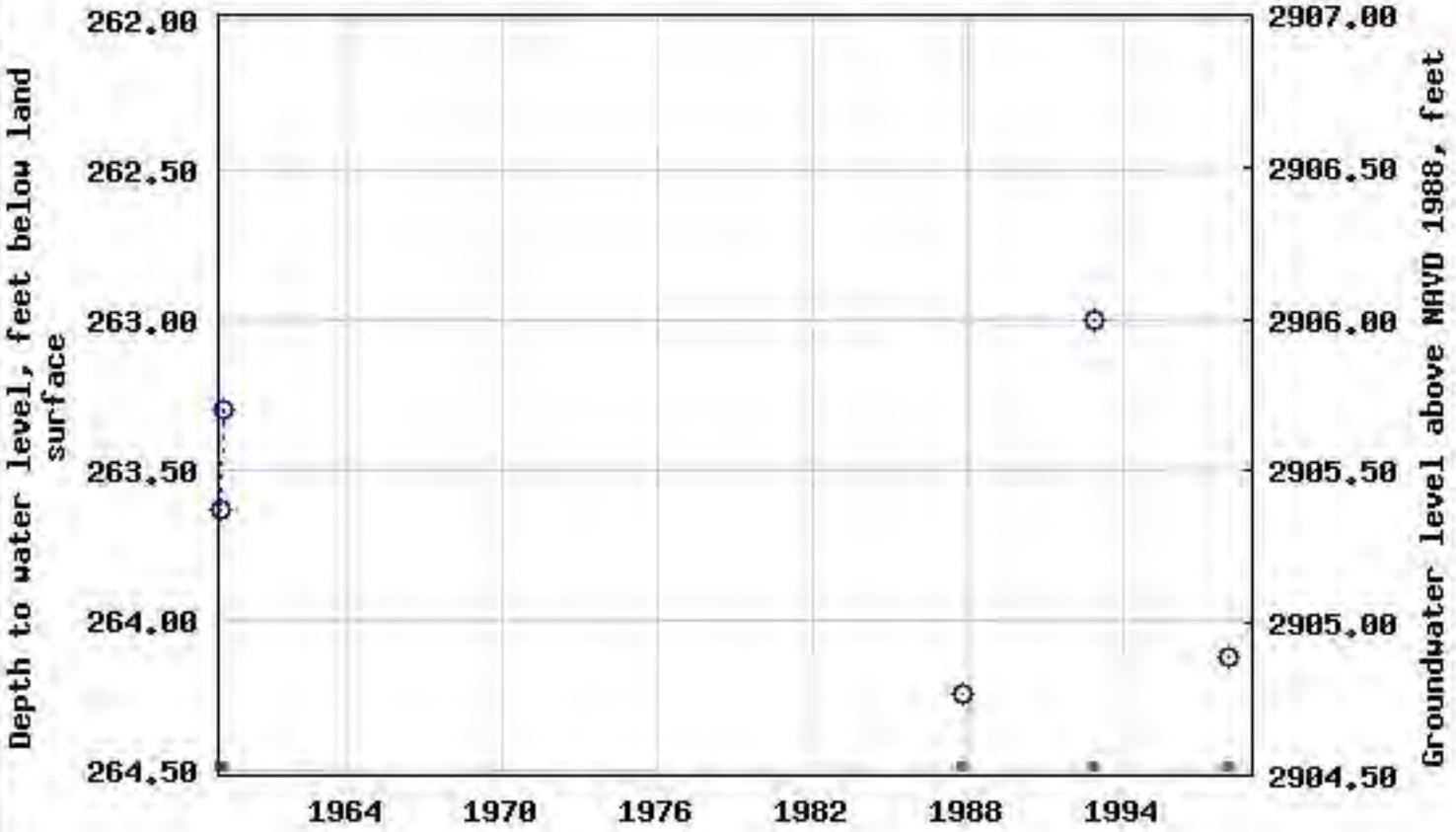
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-05	1998-01-28	5
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

USGS

USGS 320857103553301 25S.30E.07.112331



New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03581 POD1	4	4	4	05	26S	30E	604298	3548291

Driller License: 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC

Driller Name:

Drill Start Date: 11/01/2012 **Drill Finish Date:** 11/09/2012 **Plug Date:**

Log File Date: 11/13/2012 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 55 GPM

Casing Size: 6.00 **Depth Well:** 800 feet **Depth Water:** 320 feet

Water Bearing Stratifications:

Top	Bottom	Description
225	335	Sandstone/Gravel/Conglomerate
690	710	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
360	400
680	760
760	800

Meter Number: 16571 **Meter Make:** MASTERMETER

Meter Serial Number: 8107621 **Meter Multiplier:** 100.0000

Number of Dials: 6 **Meter Type:** Diversion

Unit of Measure: Gallons **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:**

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
04/01/2014	2014	259537	A	RPT		0	
07/01/2014	2014	278436	A	RPT		5.800	
10/01/2014	2014	296778	A	RPT		5.629	
12/31/2014	2014	313660	A	RPT		5.181	
02/01/2015	2015	318775	A	RPT		1.570	
03/02/2015	2015	323284	A	RPT		1.384	
04/01/2015	2015	328475	A	RPT		1.593	
04/30/2015	2015	335707	A	RPT		2.219	
05/31/2015	2015	342147	A	RPT		1.976	
08/01/2015	2015	352324	A	RPT		3.123	
08/31/2015	2015	358371	A	RPT		1.856	
10/01/2015	2015	364478	A	RPT		1.874	

****YTD Meter Amounts:**

Year	Amount
2014	16.610
2015	15.595

POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 03782 POD1	4	3	3	28	25S	30E	604526	3551444

x

Driller License: 331 **Driller Company:** SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name:

Drill Start Date: 01/16/2015 **Drill Finish Date:** 01/17/2015 **Plug Date:**

Log File Date: 02/19/2015 **PCW Rcv Date:** **Source:** Artesian

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 8.63 **Depth Well:** 805 feet **Depth Water:** 277 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	260	320	Sandstone/Gravel/Conglomerate
	320	380	Sandstone/Gravel/Conglomerate
	380	410	Sandstone/Gravel/Conglomerate
	410	530	Shale/Mudstone/Siltstone
	530	590	Shale/Mudstone/Siltstone
	590	600	Shale/Mudstone/Siltstone
	600	630	Shale/Mudstone/Siltstone
	630	650	Shale/Mudstone/Siltstone
	650	700	Shale/Mudstone/Siltstone
	700	710	Shale/Mudstone/Siltstone
	710	760	Shale/Mudstone/Siltstone
	760	770	Shale/Mudstone/Siltstone
	770	780	Shale/Mudstone/Siltstone
	780	790	Shale/Mudstone/Siltstone
	790	805	Shale/Mudstone/Siltstone

x

Casing Perforations:	Top	Bottom
	270	805

x

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH01	Date: 10/29/2020
Site Name: PLU 21 Brushy Draw 903H	
RP or Incident Number: NRM2005160694	
LTE Job Number: 12920031	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Trackhoe
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
	1,545	34.1		PH01		1		brown, caliche and medium sand
	509	13.0				2		lighter brown, more caliche
	<180	6.5				3		
	<180	1.5		PH01A		4		brown, mostly medium sand with trace caliche
								TD @ 4'

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH02	Date: 10/29/2020
Site Name: PLU 21 Brushy Draw 903H	
RP or Incident Number: NRM2005160694	
LTE Job Number: 12920031	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN	Method: Trackhoe		
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
	257	0.7		PH02		1		tan, medium sand and caliche
	257	0.3				2		Same as above (SAA)
	<180	0.2				3		SAA
	<180	0.1		PH02A		4		SAA
								TD @ 4' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH03	Date: 10/29/2020
Site Name: PLU 21 Brushy Draw 903H	
RP or Incident Number: NRM2005160694	
LTE Job Number: 12920031	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By EN		Method:	Trackhoe
Lat/Long:	Field Screening: Chloride, PID	Hole Diameter:	Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
	<180	0.0		PH03		1		tan, medium sand and caliche
	<180	0.0				2		Same as above (SAA)
	<180	0.0				3		SAA
	<180	0.0		PH03A		4		SAA
								TD @ 4' bgs

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Poker Lake Unit 21 Brushy Draw 903H Eddy County, New Mexico	NRM2005160694

Photo No.	Date
1	October 15, 2020

View of SS01 sample location facing East.

Photo No.	Date
2	October 22, 2020

View of area impacted by release facing Southeast.

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Poker Lake Unit 21 Brushy Draw 903H Eddy County, New Mexico	NRM2005160694

Photo No.	Date
3	October 29, 2020

View of final excavation extent facing East-southeast.

Photo No.	Date
4	October 29, 2020

View of final excavation extent facing South.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

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Certificate of Analysis Summary 675349

LT Environmental, Inc., Arvada, CO

Project Name: Poker Lake Unit 21 Bushy Draw 903H

Project Id: 012920031
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 10.15.2020 16:15
Report Date: 10.20.2020 12:19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	675349-001		675349-002		675349-003		675349-004					
	Field Id:	SS01		SS02		SS04		SS03					
	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	10.15.2020 10:50		10.15.2020 11:00		10.15.2020 11:20		10.15.2020 11:10					
BTEX by EPA 8021B	***Extracted:***	10.16.2020 09:00		10.16.2020 09:00		10.16.2020 09:00		10.16.2020 09:00					
	Analyzed:	10.16.2020 14:15		10.16.2020 14:38		10.16.2020 15:00		10.16.2020 13:53					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.0192	0.0192	<0.0192	0.0192	<0.0196	0.0196	<0.00200	0.00200				
Toluene		<0.0192	0.0192	<0.0192	0.0192	<0.0196	0.0196	<0.00200	0.00200				
Ethylbenzene		<0.0192	0.0192	<0.0192	0.0192	<0.0196	0.0196	<0.00200	0.00200				
m,p-Xylenes		<0.0385	0.0385	<0.0385	0.0385	<0.0392	0.0392	<0.00401	0.00401				
o-Xylene		<0.0192	0.0192	<0.0192	0.0192	<0.0196	0.0196	<0.00200	0.00200				
Total Xylenes		<0.0192	0.0192	<0.0192	0.0192	<0.0196	0.0196	<0.00200	0.00200				
Total BTEX		<0.0192	0.0192	<0.0192	0.0192	<0.0196	0.0196	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	10.16.2020 14:08		10.16.2020 14:08		10.16.2020 14:08		10.16.2020 14:08					
	Analyzed:	** ** ** **		** ** ** **		** ** ** **		** ** ** **					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		1150	49.6	3440	49.9	4950	49.9	1080	49.9				
TPH by SW8015 Mod	***Extracted:***	10.16.2020 17:30		10.16.2020 17:30		10.19.2020 10:30		10.16.2020 10:10					
	Analyzed:	10.19.2020 10:01		10.19.2020 10:20		10.19.2020 18:14		10.16.2020 10:55					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<250	250	<250	250	<249	249	<50.1	50.1				
Diesel Range Organics (DRO)		23500	250	21500	250	10000	249	<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<250	250	<250	250	<249	249	<50.1	50.1				
Total GRO-DRO		23500	250	21500	250	10000	249	<50.1	50.1				
Total TPH		23500	250	21500	250	10000	249	<50.1	50.1				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 675349

for

LT Environmental, Inc.

Project Manager: Dan Moir

Poker Lake Unit 21 Bushy Draw 903H

012920031

10.20.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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10.20.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **675349**
Poker Lake Unit 21 Bushy Draw 903H
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 675349. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 675349 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 675349

LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	10.15.2020 10:50	0.5 ft	675349-001
SS02	S	10.15.2020 11:00	0.5 ft	675349-002
SS04	S	10.15.2020 11:20	0.5 ft	675349-003
SS03	S	10.15.2020 11:10	0.5 ft	675349-004

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Poker Lake Unit 21 Bushy Draw 903H

Project ID: *012920031*
Work Order Number(s): *675349*

Report Date: *10.20.2020*
Date Received: *10.15.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 675349

LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-001	Date Collected:	10.15.2020 10:50	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 14:08	% Moisture:	
Seq Number:	3139862			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1150**	49.6	mg/kg	10.16.2020 12:27		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	10.16.2020 17:30	% Moisture:	
Seq Number:	3139959			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	10.19.2020 10:01	U	5
Diesel Range Organics (DRO)	C10C28DRO	**23500**	250	mg/kg	10.19.2020 10:01		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<250	250	mg/kg	10.19.2020 10:01	U	5
Total GRO-DRO	PHC628	**23500**	250	mg/kg	10.19.2020 10:01		5
Total TPH	PHC635	**23500**	250	mg/kg	10.19.2020 10:01		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	10.19.2020 10:01	
o-Terphenyl	84-15-1	105	%	70-135	10.19.2020 10:01	

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Certificate of Analytical Results 675349

LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-001	Date Collected:	10.15.2020 10:50	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 09:00	% Moisture:	
Seq Number:	3139877			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0192	0.0192	mg/kg	10.16.2020 14:15	U	1
Toluene	108-88-3	<0.0192	0.0192	mg/kg	10.16.2020 14:15	U	1
Ethylbenzene	100-41-4	<0.0192	0.0192	mg/kg	10.16.2020 14:15	U	1
m,p-Xylenes	179601-23-1	<0.0385	0.0385	mg/kg	10.16.2020 14:15	U	1
o-Xylene	95-47-6	<0.0192	0.0192	mg/kg	10.16.2020 14:15	U	1
Total Xylenes	1330-20-7	<0.0192	0.0192	mg/kg	10.16.2020 14:15	U	1
Total BTEX		<0.0192	0.0192	mg/kg	10.16.2020 14:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.16.2020 14:15	
1,4-Difluorobenzene	540-36-3	93	%	70-130	10.16.2020 14:15	

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LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-002	Date Collected:	10.15.2020 11:00	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 14:08	% Moisture:	
Seq Number:	3139862			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3440**	49.9	mg/kg	10.16.2020 12:32		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	10.16.2020 17:30	% Moisture:	
Seq Number:	3139959			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250	mg/kg	10.19.2020 10:20	U	5
Diesel Range Organics (DRO)	C10C28DRO	**21500**	250	mg/kg	10.19.2020 10:20		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<250	250	mg/kg	10.19.2020 10:20	U	5
Total GRO-DRO	PHC628	**21500**	250	mg/kg	10.19.2020 10:20		5
Total TPH	PHC635	**21500**	250	mg/kg	10.19.2020 10:20		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.19.2020 10:20	
o-Terphenyl	84-15-1	102	%	70-135	10.19.2020 10:20	

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LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-002	Date Collected:	10.15.2020 11:00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 09:00	% Moisture:	
Seq Number:	3139877			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0192	0.0192	mg/kg	10.16.2020 14:38	U	1
Toluene	108-88-3	<0.0192	0.0192	mg/kg	10.16.2020 14:38	U	1
Ethylbenzene	100-41-4	<0.0192	0.0192	mg/kg	10.16.2020 14:38	U	1
m,p-Xylenes	179601-23-1	<0.0385	0.0385	mg/kg	10.16.2020 14:38	U	1
o-Xylene	95-47-6	<0.0192	0.0192	mg/kg	10.16.2020 14:38	U	1
Total Xylenes	1330-20-7	<0.0192	0.0192	mg/kg	10.16.2020 14:38	U	1
Total BTEX		<0.0192	0.0192	mg/kg	10.16.2020 14:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	10.16.2020 14:38	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.16.2020 14:38	

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Certificate of Analytical Results 675349

LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-003	Date Collected:	10.15.2020 11:20	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 14:08	% Moisture:	
Seq Number:	3139862			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4950**	49.9	mg/kg	10.16.2020 12:38		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	10.19.2020 10:30	% Moisture:	
Seq Number:	3140041			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<249	249	mg/kg	10.19.2020 18:14	U	5
Diesel Range Organics (DRO)	C10C28DRO	**10000**	249	mg/kg	10.19.2020 18:14		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<249	249	mg/kg	10.19.2020 18:14	U	5
Total GRO-DRO	PHC628	**10000**	249	mg/kg	10.19.2020 18:14		5
Total TPH	PHC635	**10000**	249	mg/kg	10.19.2020 18:14		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	10.19.2020 18:14	
o-Terphenyl	84-15-1	106	%	70-135	10.19.2020 18:14	

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Certificate of Analytical Results 675349

LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-003	Date Collected:	10.15.2020 11:20	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 09:00	% Moisture:	
Seq Number:	3139877			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0196	0.0196	mg/kg	10.16.2020 15:00	U	1
Toluene	108-88-3	<0.0196	0.0196	mg/kg	10.16.2020 15:00	U	1
Ethylbenzene	100-41-4	<0.0196	0.0196	mg/kg	10.16.2020 15:00	U	1
m,p-Xylenes	179601-23-1	<0.0392	0.0392	mg/kg	10.16.2020 15:00	U	1
o-Xylene	95-47-6	<0.0196	0.0196	mg/kg	10.16.2020 15:00	U	1
Total Xylenes	1330-20-7	<0.0196	0.0196	mg/kg	10.16.2020 15:00	U	1
Total BTEX		<0.0196	0.0196	mg/kg	10.16.2020 15:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	81	%	70-130	10.16.2020 15:00	
1,4-Difluorobenzene	540-36-3	117	%	70-130	10.16.2020 15:00	

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Certificate of Analytical Results 675349

LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-004	Date Collected:	10.15.2020 11:10	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 14:08	% Moisture:	
Seq Number:	3139862			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1080**	49.9	mg/kg	10.16.2020 12:43		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH				
Analyst:	DTH	Date Prep:	10.16.2020 10:10	% Moisture:	
Seq Number:	3139881			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.16.2020 10:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.16.2020 10:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.16.2020 10:55	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.16.2020 10:55	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.16.2020 10:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.16.2020 10:55	
o-Terphenyl	84-15-1	105	%	70-135	10.16.2020 10:55	

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Certificate of Analytical Results 675349

LT Environmental, Inc., Arvada, CO

Poker Lake Unit 21 Bushy Draw 903H

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	10.15.2020 16:15
Lab Sample Id:	675349-004	Date Collected:	10.15.2020 11:10	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.16.2020 09:00	% Moisture:	
Seq Number:	3139877			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.16.2020 13:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.16.2020 13:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.16.2020 13:53	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.16.2020 13:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.16.2020 13:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.16.2020 13:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.16.2020 13:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.16.2020 13:53	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.16.2020 13:53	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 675349

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LT Environmental, Inc.

Poker Lake Unit 21 Bushy Draw 903H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139862 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713392-1-BLK — LCS Sample Id: 7713392-1-BKS — LCSD Sample Id: 7713392-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	250	100	90-110	0	20	mg/kg	10.16.2020 11:10	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3139862 — Matrix: Soil — Date Prep: 10.16.2020
Parent Sample Id: 675368-001 — MS Sample Id: 675368-001 S — MSD Sample Id: 675368-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	262	199	461	100	456	97	90-110	1	20	mg/kg	10.16.2020 11:43	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139881 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK — LCS Sample Id: 7713398-1-BKS — LCSD Sample Id: 7713398-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	750	75	859	86	70-135	14	35	mg/kg	10.16.2020 10:10	
Diesel Range Organics (DRO)	<50.0	1000	891	89	1020	102	70-135	14	35	mg/kg	10.16.2020 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		99		112		70-135	%	10.16.2020 10:10
o-Terphenyl	87		87		99		70-135	%	10.16.2020 10:10

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139959 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713463-1-BLK — LCS Sample Id: 7713463-1-BKS — LCSD Sample Id: 7713463-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	960	96	988	99	70-135	3	35	mg/kg	10.16.2020 10:10	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1070	107	70-135	1	35	mg/kg	10.16.2020 10:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		118		116		70-135	%	10.16.2020 10:10
o-Terphenyl	100		105		104		70-135	%	10.16.2020 10:10

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 675349

LT Environmental, Inc.

Poker Lake Unit 21 Bushy Draw 903H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140041 — Matrix: Solid — Date Prep: 10.19.2020
MB Sample Id: 7713508-1-BLK — LCS Sample Id: 7713508-1-BKS — LCSD Sample Id: 7713508-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1040	104	1050	105	70-135	1	35	mg/kg	10.19.2020 12:11	
Diesel Range Organics (DRO)	<50.0	1000	1190	119	1200	120	70-135	1	35	mg/kg	10.19.2020 12:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		125		121		70-135	%	10.19.2020 12:11
o-Terphenyl	102		117		121		70-135	%	10.19.2020 12:11

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139881 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713398-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.16.2020 09:50	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139959 — Matrix: Solid — Date Prep: 10.16.2020
MB Sample Id: 7713463-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.16.2020 09:50	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3140041 — Matrix: Solid — Date Prep: 10.19.2020
MB Sample Id: 7713508-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.19.2020 12:51	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3139881 — Matrix: Soil — Date Prep: 10.16.2020
Parent Sample Id: 675349-004 — MS Sample Id: 675349-004 S — MSD Sample Id: 675349-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	853	85	882	88	70-135	3	35	mg/kg	10.16.2020 11:15	
Diesel Range Organics (DRO)	<50.2	1000	1030	103	1060	106	70-135	3	35	mg/kg	10.16.2020 11:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		112		70-135	%	10.16.2020 11:15
o-Terphenyl	100		98		70-135	%	10.16.2020 11:15

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 675349

LT Environmental, Inc.

Poker Lake Unit 21 Bushy Draw 903H

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3139959 | Matrix: Soil | Date Prep: 10.16.2020
Parent Sample Id: 675356-009 | MS Sample Id: 675356-009 S | MSD Sample Id: 675356-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1080	108	1050	105	70-135	3	35	mg/kg	10.16.2020 19:04	
Diesel Range Organics (DRO)	<49.9	998	1180	118	1140	114	70-135	3	35	mg/kg	10.16.2020 19:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	133		130		70-135	%	10.16.2020 19:04
o-Terphenyl	114		114		70-135	%	10.16.2020 19:04

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3140041 | Matrix: Soil | Date Prep: 10.19.2020
Parent Sample Id: 675472-002 | MS Sample Id: 675472-002 S | MSD Sample Id: 675472-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1090	109	1050	105	70-135	4	35	mg/kg	10.19.2020 13:32	
Diesel Range Organics (DRO)	<50.1	1000	1100	110	1190	119	70-135	8	35	mg/kg	10.19.2020 13:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		123		70-135	%	10.19.2020 13:32
o-Terphenyl	120		120		70-135	%	10.19.2020 13:32

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5035A
Seq Number: 3139877 | Matrix: Solid | Date Prep: 10.16.2020
MB Sample Id: 7713394-1-BLK | LCS Sample Id: 7713394-1-BKS | LCSD Sample Id: 7713394-1-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	0.101	101	0.105	105	70-130	4	35	mg/kg	10.16.2020 09:58	
Toluene	<0.00200	0.100	0.0975	98	0.103	103	70-130	5	35	mg/kg	10.16.2020 09:58	
Ethylbenzene	<0.00200	0.100	0.0909	91	0.0956	96	71-129	5	35	mg/kg	10.16.2020 09:58	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.191	96	70-135	5	35	mg/kg	10.16.2020 09:58	
o-Xylene	<0.00200	0.100	0.0904	90	0.0948	95	71-133	5	35	mg/kg	10.16.2020 09:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		97		70-130	%	10.16.2020 09:58
4-Bromofluorobenzene	85		85		84		70-130	%	10.16.2020 09:58

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 675349

LT Environmental, Inc.

Poker Lake Unit 21 Bushy Draw 903H

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3139877 Matrix: Soil Date Prep: 10.16.2020

Parent Sample Id: 675368-001 MS Sample Id: 675368-001 S MSD Sample Id: 675368-001 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	0.126	126	0.0960	96	70-130	27	35	mg/kg	10.16.2020 10:43	
Toluene	<0.00200	0.0998	0.122	122	0.0932	93	70-130	27	35	mg/kg	10.16.2020 10:43	
Ethylbenzene	<0.00200	0.0998	0.115	115	0.0871	87	71-129	28	35	mg/kg	10.16.2020 10:43	
m,p-Xylenes	<0.00399	0.200	0.231	116	0.173	86	70-135	29	35	mg/kg	10.16.2020 10:43	
o-Xylene	<0.00200	0.0998	0.112	112	0.0863	86	71-133	26	35	mg/kg	10.16.2020 10:43	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		70-130	%	10.16.2020 10:43
4-Bromofluorobenzene	84		84		70-130	%	10.16.2020 10:43

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 675349

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slo@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 21 Bushy Draw 903H	Turn Around	
Project Number:	012920031	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.2/1.0	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	4

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SS01	S	10.15.20	1050	0.5'	1	X	X	X
SS02	S	10.15.20	1100	0.5'	1	X	X	X
SS04	S	10.15.20	1120	0.5'	1	X	X	X
SS03	S	10.15.20	1110	0.5'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Clive Clifton	10.15.20 1615	2		
			4		
			6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.15.2020 04.15.00 PM

Work Order #: 675349

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.15.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 10.16.2020

Jessica Kramer

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Certificate of Analysis Summary 676444

LT Environmental, Inc., Arvada, CO

Project Name: PLU 21 Brushy Draw 903H

Project Id: 012920031
Contact: Dan Moir
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 10.30.2020 08:48
Report Date: 11.17.2020 15:35
Project Manager: Jessica Kramer

Analysis Requested		676444-001		676444-002		676444-003		676444-004		676444-005		676444-006	
	Field Id:	SW01		SW02		SW03		SW04		FS01		FS02	
	Depth:	0-2 ft		0-2 ft		0-2 ft		0-2 ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.29.2020 12:45		10.29.2020 14:25		10.29.2020 14:30		10.29.2020 14:35		10.29.2020 13:15		10.29.2020 13:20	
BTEX by EPA 8021B	*Extracted:*	10.30.2020 10:00		10.30.2020 10:00		10.30.2020 10:00		10.30.2020 10:00		10.30.2020 10:00		10.30.2020 10:00	
	Analyzed:	10.31.2020 00:31		10.31.2020 00:53		10.31.2020 01:15		10.31.2020 01:38		10.31.2020 02:00		10.31.2020 02:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00196	0.00196	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00201	0.00201
Toluene		<0.00196	0.00196	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00201	0.00201
Ethylbenzene		<0.00196	0.00196	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00201	0.00201
m,p-Xylenes		<0.00392	0.00392	<0.00398	0.00398	<0.00399	0.00399	<0.00402	0.00402	<0.00403	0.00403	<0.00402	0.00402
o-Xylene		<0.00196	0.00196	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00201	0.00201
Total Xylenes		<0.00196	0.00196	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00201	0.00201
Total BTEX		<0.00196	0.00196	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00201	0.00201
Chloride by EPA 300	*Extracted:*	11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32	
	Analyzed:	11.02.2020 12:19		11.02.2020 12:36		11.02.2020 12:41		11.02.2020 12:47		11.02.2020 12:52		11.02.2020 12:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		981	10.0	373	9.98	642	9.94	43.5	9.92	797	10.0	781	9.92
TPH by SW8015 Mod	*Extracted:*	10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:00	
	Analyzed:	10.30.2020 14:27		10.30.2020 15:08		10.30.2020 15:28		10.30.2020 15:48		10.30.2020 16:08		10.30.2020 16:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1	<49.8	49.8
Diesel Range Organics (DRO)		<50.2	50.2	<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1	<49.8	49.8
Total GRO-DRO		<50.2	50.2	<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1	<49.8	49.8
Total TPH		<50.2	50.2	<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1	<49.8	49.8

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 676444

LT Environmental, Inc., Arvada, CO

Project Name: PLU 21 Brushy Draw 903H

Project Id: 012920031
Contact: Dan Moir
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 10.30.2020 08:48
Report Date: 11.17.2020 15:35
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	676444-007		676444-008		676444-009		676444-010		676444-011		676444-012	
	Field Id:	FS03		FS04		FS05		FS06		FS07		FS08	
	Depth:	2- ft		2- ft		2- ft		2- ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.29.2020 13:25		10.29.2020 14:55		10.29.2020 15:00		10.29.2020 15:05		10.29.2020 15:20		10.29.2020 15:25	
BTEX by EPA 8021B	***Extracted:***	10.30.2020 10:00		10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26	
	Analyzed:	10.31.2020 02:45		10.30.2020 14:11		10.30.2020 14:33		10.30.2020 14:56		10.30.2020 15:18		10.30.2020 15:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00401	0.00401	<0.00403	0.00403	<0.00404	0.00404	<0.00401	0.00401	<0.00401	0.00401
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32	
	Analyzed:	11.02.2020 13:03		11.02.2020 14:32		11.02.2020 14:48		11.02.2020 14:54		11.02.2020 14:59		11.02.2020 15:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		610	9.98	116	9.92	255	9.96	88.9	9.92	74.9	10.1	47.5	10.1
TPH by SW8015 Mod	***Extracted:***	10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:00		10.30.2020 09:30	
	Analyzed:	10.30.2020 16:48		10.30.2020 17:08		10.30.2020 17:28		10.30.2020 17:48		10.30.2020 18:08		10.30.2020 16:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.3	50.3	<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.3	50.3
Diesel Range Organics (DRO)		<50.0	50.0	<50.3	50.3	52.2	50.3	<49.9	49.9	<50.2	50.2	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.3	50.3	<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.3	50.3
Total GRO-DRO		<50.0	50.0	<50.3	50.3	52.2	50.3	<49.9	49.9	<50.2	50.2	<50.3	50.3
Total TPH		<50.0	50.0	<50.3	50.3	52.2	50.3	<49.9	49.9	<50.2	50.2	<50.3	50.3

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 676444

LT Environmental, Inc., Arvada, CO

Project Name: PLU 21 Brushy Draw 903H

Project Id: 012920031
Contact: Dan Moir
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 10.30.2020 08:48
Report Date: 11.17.2020 15:35
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	676444-013		676444-014		676444-015		676444-016		676444-017		676444-018	
	Field Id:	FS09		FS10		FS11		FS12		PH01		PH01A	
	Depth:	2- ft		2- ft		2- ft		2- ft		1- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.29.2020 15:30		10.29.2020 15:35		10.29.2020 15:40		10.29.2020 15:45		10.29.2020 09:50		10.29.2020 10:05	
BTEX by EPA 8021B	***Extracted:***	10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26	
	Analyzed:	10.30.2020 16:03		10.30.2020 16:26		10.30.2020 16:48		10.30.2020 17:10		10.30.2020 17:33		10.30.2020 19:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
m,p-Xylenes		<0.00396	0.00396	<0.00399	0.00399	<0.00397	0.00397	<0.00398	0.00398	<0.00399	0.00399	<0.00404	0.00404
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Chloride by EPA 300	***Extracted:***	11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32	
	Analyzed:	11.02.2020 15:21		11.02.2020 15:27		11.02.2020 15:32		11.02.2020 15:37		11.02.2020 15:43		11.02.2020 15:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		592	9.90	44.1	9.94	122	9.98	66.0	10.1	559	10.1	190	49.9
TPH by SW8015 Mod	***Extracted:***	10.30.2020 09:30		10.30.2020 09:30		10.30.2020 09:30		10.30.2020 09:30		10.30.2020 09:30		10.30.2020 09:30	
	Analyzed:	10.30.2020 16:28		10.30.2020 16:48		10.30.2020 17:08		10.30.2020 17:28		10.30.2020 18:08		10.30.2020 17:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0	<49.8	49.8	<50.1	50.1
Diesel Range Organics (DRO)		54.4	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0	1150	49.8	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0	<49.8	49.8	<50.1	50.1
Total GRO-DRO		54.4	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0	1150	49.8	<50.1	50.1
Total TPH		54.4	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0	1150	49.8	<50.1	50.1

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 676444

LT Environmental, Inc., Arvada, CO

Project Name: PLU 21 Brushy Draw 903H

Project Id: 012920031
Contact: Dan Moir
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 10.30.2020 08:48
Report Date: 11.17.2020 15:35
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	676444-019		676444-020		676444-021		676444-022					
	Field Id:	PH02		PH02A		PH03		PH03A					
	Depth:	1- ft		4- ft		1- ft		4- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	10.29.2020 10:25		10.29.2020 10:40		10.29.2020 11:00		10.29.2020 12:45					
BTEX by EPA 8021B	***Extracted:***	10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26		10.30.2020 10:26					
	Analyzed:	10.30.2020 19:50		10.30.2020 20:12		10.30.2020 20:35		10.30.2020 20:57					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198				
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198				
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198				
m,p-Xylenes		<0.00401	0.00401	<0.00396	0.00396	<0.00400	0.00400	<0.00397	0.00397				
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198				
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198				
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198				
Chloride by EPA 300	***Extracted:***	11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32		11.02.2020 09:32					
	Analyzed:	11.02.2020 16:05		11.02.2020 16:10		11.02.2020 16:27		11.02.2020 16:32					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		496	10.1	18.9	9.96	174	9.98	108	50.3				
TPH by SW8015 Mod	***Extracted:***	11.02.2020 16:30		11.02.2020 16:30		11.02.2020 16:30		11.02.2020 16:30					
	Analyzed:	11.02.2020 22:39		11.02.2020 22:59		11.02.2020 23:39		11.02.2020 23:59					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.1	50.1	<50.0	50.0	<50.2	50.2				
Diesel Range Organics (DRO)		<50.2	50.2	<50.1	50.1	<50.0	50.0	<50.2	50.2				
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.1	50.1	<50.0	50.0	<50.2	50.2				
Total GRO-DRO		<50.2	50.2	<50.1	50.1	<50.0	50.0	<50.2	50.2				
Total TPH		<50.2	50.2	<50.1	50.1	<50.0	50.0	<50.2	50.2				

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 676444

for

LT Environmental, Inc.

Project Manager: Dan Moir

PLU 21 Brushy Draw 903H

012920031

11.17.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.17.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **676444**
PLU 21 Brushy Draw 903H
Project Address: Eddy County, New Mexico

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676444. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676444 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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Sample Cross Reference 676444

LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	10.29.2020 12:45	0 - 2 ft	676444-001
SW02	S	10.29.2020 14:25	0 - 2 ft	676444-002
SW03	S	10.29.2020 14:30	0 - 2 ft	676444-003
SW04	S	10.29.2020 14:35	0 - 2 ft	676444-004
FS01	S	10.29.2020 13:15	2 ft	676444-005
FS02	S	10.29.2020 13:20	2 ft	676444-006
FS03	S	10.29.2020 13:25	2 ft	676444-007
FS04	S	10.29.2020 14:55	2 ft	676444-008
FS05	S	10.29.2020 15:00	2 ft	676444-009
FS06	S	10.29.2020 15:05	2 ft	676444-010
FS07	S	10.29.2020 15:20	2 ft	676444-011
FS08	S	10.29.2020 15:25	2 ft	676444-012
FS09	S	10.29.2020 15:30	2 ft	676444-013
FS10	S	10.29.2020 15:35	2 ft	676444-014
FS11	S	10.29.2020 15:40	2 ft	676444-015
FS12	S	10.29.2020 15:45	2 ft	676444-016
PH01	S	10.29.2020 09:50	1 ft	676444-017
PH01A	S	10.29.2020 10:05	4 ft	676444-018
PH02	S	10.29.2020 10:25	1 ft	676444-019
PH02A	S	10.29.2020 10:40	4 ft	676444-020
PH03	S	10.29.2020 11:00	1 ft	676444-021
PH03A	S	10.29.2020 12:45	4 ft	676444-022

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: PLU 21 Brushy Draw 903H

Project ID: *012920031*
Work Order Number(s): *676444*

Report Date: *11.17.2020*
Date Received: *10.30.2020*

Sample receipt non conformances and comments:

V1.001 Revision - updated project name

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676444

LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-001	Date Collected:	10.29.2020 12:45	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141203			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**981**	10.0	mg/kg	11.02.2020 12:19		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.30.2020 14:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.30.2020 14:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.30.2020 14:27	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.30.2020 14:27	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.30.2020 14:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	10.30.2020 14:27	
o-Terphenyl	84-15-1	116	%	70-135	10.30.2020 14:27	

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Certificate of Analytical Results 676444

LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-001	Date Collected:	10.29.2020 12:45	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:00	% Moisture:	
Seq Number:	3141116			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00196	0.00196	mg/kg	10.31.2020 00:31	U	1
Toluene	108-88-3	<0.00196	0.00196	mg/kg	10.31.2020 00:31	U	1
Ethylbenzene	100-41-4	<0.00196	0.00196	mg/kg	10.31.2020 00:31	U	1
m,p-Xylenes	179601-23-1	<0.00392	0.00392	mg/kg	10.31.2020 00:31	U	1
o-Xylene	95-47-6	<0.00196	0.00196	mg/kg	10.31.2020 00:31	U	1
Total Xylenes	1330-20-7	<0.00196	0.00196	mg/kg	10.31.2020 00:31	U	1
Total BTEX		<0.00196	0.00196	mg/kg	10.31.2020 00:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.31.2020 00:31	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.31.2020 00:31	

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Certificate of Analytical Results 676444

LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-002	Date Collected:	10.29.2020 14:25	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141203			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**373**	9.98	mg/kg	11.02.2020 12:36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.30.2020 15:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.30.2020 15:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.30.2020 15:08	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.30.2020 15:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.30.2020 15:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	10.30.2020 15:08	
o-Terphenyl	84-15-1	125	%	70-135	10.30.2020 15:08	

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Certificate of Analytical Results 676444

LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-002	Date Collected:	10.29.2020 14:25	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:00	% Moisture:	
Seq Number:	3141116			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.31.2020 00:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.31.2020 00:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.31.2020 00:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.31.2020 00:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.31.2020 00:53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.31.2020 00:53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.31.2020 00:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.31.2020 00:53	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.31.2020 00:53	

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LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-003	Date Collected:	10.29.2020 14:30	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141203			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**642**	9.94	mg/kg	11.02.2020 12:41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.30.2020 15:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.30.2020 15:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.30.2020 15:28	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.30.2020 15:28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.30.2020 15:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	10.30.2020 15:28	
o-Terphenyl	84-15-1	129	%	70-135	10.30.2020 15:28	

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PLU 21 Brushy Draw 903H

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-003	Date Collected:	10.29.2020 14:30	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:00	% Moisture:	
Seq Number:	3141116			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.31.2020 01:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.31.2020 01:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.31.2020 01:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.31.2020 01:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.31.2020 01:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.31.2020 01:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.31.2020 01:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.31.2020 01:15	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.31.2020 01:15	

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PLU 21 Brushy Draw 903H

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-004	Date Collected:	10.29.2020 14:35	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141203			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**43.5**	9.92	mg/kg	11.02.2020 12:47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.30.2020 15:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.30.2020 15:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.30.2020 15:48	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.30.2020 15:48	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.30.2020 15:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	10.30.2020 15:48	
o-Terphenyl	84-15-1	125	%	70-135	10.30.2020 15:48	

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PLU 21 Brushy Draw 903H

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-004	Date Collected:	10.29.2020 14:35	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:00	% Moisture:	
Seq Number:	3141116			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.31.2020 01:38	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.31.2020 01:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.31.2020 01:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.31.2020 01:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.31.2020 01:38	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.31.2020 01:38	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.31.2020 01:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.31.2020 01:38	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.31.2020 01:38	

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PLU 21 Brushy Draw 903H

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-005	Date Collected:	10.29.2020 13:15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141203			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**797**	10.0	mg/kg	11.02.2020 12:52		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.30.2020 16:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.30.2020 16:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.30.2020 16:08	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.30.2020 16:08	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.30.2020 16:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	10.30.2020 16:08	
o-Terphenyl	84-15-1	129	%	70-135	10.30.2020 16:08	

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PLU 21 Brushy Draw 903H

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-005	Date Collected:	10.29.2020 13:15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:00	% Moisture:	
Seq Number:	3141116			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.31.2020 02:00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.31.2020 02:00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.31.2020 02:00	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.31.2020 02:00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.31.2020 02:00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.31.2020 02:00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.31.2020 02:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.31.2020 02:00	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.31.2020 02:00	

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PLU 21 Brushy Draw 903H

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-006	Date Collected:	10.29.2020 13:20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141203			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**781**	9.92	mg/kg	11.02.2020 12:58		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.30.2020 16:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.30.2020 16:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.30.2020 16:28	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	10.30.2020 16:28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.30.2020 16:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	10.30.2020 16:28	
o-Terphenyl	84-15-1	116	%	70-135	10.30.2020 16:28	

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PLU 21 Brushy Draw 903H

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-006	Date Collected:	10.29.2020 13:20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:00	% Moisture:	
Seq Number:	3141116			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.31.2020 02:22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.31.2020 02:22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.31.2020 02:22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.31.2020 02:22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.31.2020 02:22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.31.2020 02:22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.31.2020 02:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.31.2020 02:22	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.31.2020 02:22	

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PLU 21 Brushy Draw 903H

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-007	Date Collected:	10.29.2020 13:25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141203			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**610**	9.98	mg/kg	11.02.2020 13:03		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.30.2020 16:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.30.2020 16:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.30.2020 16:48	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.30.2020 16:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.30.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-135	10.30.2020 16:48	
o-Terphenyl	84-15-1	132	%	70-135	10.30.2020 16:48	

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Sample Id:	**FS03**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-007	Date Collected:	10.29.2020 13:25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:00	% Moisture:	
Seq Number:	3141116			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.31.2020 02:45	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.31.2020 02:45	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.31.2020 02:45	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.31.2020 02:45	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.31.2020 02:45	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.31.2020 02:45	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.31.2020 02:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.31.2020 02:45	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.31.2020 02:45	

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Sample Id:	**FS04**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-008	Date Collected:	10.29.2020 14:55	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**116**	9.92	mg/kg	11.02.2020 14:32		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	10.30.2020 17:08	
o-Terphenyl	84-15-1	133	%	70-135	10.30.2020 17:08	

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Sample Id:	**FS04**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-008	Date Collected:	10.29.2020 14:55	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.30.2020 14:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.30.2020 14:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.30.2020 14:11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.30.2020 14:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.30.2020 14:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.30.2020 14:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.30.2020 14:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	10.30.2020 14:11	
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.30.2020 14:11	

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PLU 21 Brushy Draw 903H

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-009	Date Collected:	10.29.2020 15:00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**255**	9.96	mg/kg	11.02.2020 14:48		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.30.2020 17:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	**52.2**	50.3	mg/kg	10.30.2020 17:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.30.2020 17:28	U	1
Total GRO-DRO	PHC628	**52.2**	50.3	mg/kg	10.30.2020 17:28		1
Total TPH	PHC635	**52.2**	50.3	mg/kg	10.30.2020 17:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	10.30.2020 17:28	
o-Terphenyl	84-15-1	130	%	70-135	10.30.2020 17:28	

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Sample Id:	**FS05**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-009	Date Collected:	10.29.2020 15:00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.30.2020 14:33	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.30.2020 14:33	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.30.2020 14:33	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.30.2020 14:33	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.30.2020 14:33	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.30.2020 14:33	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.30.2020 14:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.30.2020 14:33	
4-Bromofluorobenzene	460-00-4	118	%	70-130	10.30.2020 14:33	

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Sample Id:	**FS06**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-010	Date Collected:	10.29.2020 15:05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**88.9**	9.92	mg/kg	11.02.2020 14:54		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.30.2020 17:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.30.2020 17:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.30.2020 17:48	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	10.30.2020 17:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.30.2020 17:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-135	10.30.2020 17:48	
o-Terphenyl	84-15-1	128	%	70-135	10.30.2020 17:48	

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Sample Id:	**FS06**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-010	Date Collected:	10.29.2020 15:05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.30.2020 14:56	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.30.2020 14:56	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.30.2020 14:56	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.30.2020 14:56	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.30.2020 14:56	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.30.2020 14:56	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.30.2020 14:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.30.2020 14:56	
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.30.2020 14:56	

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Sample Id:	**FS07**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-011	Date Collected:	10.29.2020 15:20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**74.9**	10.1	mg/kg	11.02.2020 14:59		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:00	% Moisture:	
Seq Number:	3141112			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.30.2020 18:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.30.2020 18:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.30.2020 18:08	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.30.2020 18:08	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.30.2020 18:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	10.30.2020 18:08	
o-Terphenyl	84-15-1	129	%	70-135	10.30.2020 18:08	

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Sample Id:	**FS07**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-011	Date Collected:	10.29.2020 15:20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.30.2020 15:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.30.2020 15:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.30.2020 15:18	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.30.2020 15:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.30.2020 15:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.30.2020 15:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.30.2020 15:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.30.2020 15:18	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.30.2020 15:18	

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Sample Id:	**FS08**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-012	Date Collected:	10.29.2020 15:25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**47.5**	10.1	mg/kg	11.02.2020 15:05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:30	% Moisture:	
Seq Number:	3141114			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.30.2020 16:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.30.2020 16:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.30.2020 16:08	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.30.2020 16:08	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.30.2020 16:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	10.30.2020 16:08	
o-Terphenyl	84-15-1	120	%	70-135	10.30.2020 16:08	

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Sample Id:	**FS08**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-012	Date Collected:	10.29.2020 15:25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.30.2020 15:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.30.2020 15:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.30.2020 15:41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.30.2020 15:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.30.2020 15:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.30.2020 15:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.30.2020 15:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.30.2020 15:41	
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.30.2020 15:41	

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Sample Id:	**FS09**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-013	Date Collected:	10.29.2020 15:30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**592**	9.90	mg/kg	11.02.2020 15:21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:30	% Moisture:	
Seq Number:	3141114			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.30.2020 16:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	**54.4**	50.2	mg/kg	10.30.2020 16:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.30.2020 16:28	U	1
Total GRO-DRO	PHC628	**54.4**	50.2	mg/kg	10.30.2020 16:28		1
Total TPH	PHC635	**54.4**	50.2	mg/kg	10.30.2020 16:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	10.30.2020 16:28	
o-Terphenyl	84-15-1	119	%	70-135	10.30.2020 16:28	

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Sample Id:	**FS09**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-013	Date Collected:	10.29.2020 15:30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.30.2020 16:03	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.30.2020 16:03	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.30.2020 16:03	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.30.2020 16:03	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.30.2020 16:03	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.30.2020 16:03	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.30.2020 16:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	10.30.2020 16:03	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.30.2020 16:03	

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Sample Id:	**FS10**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-014	Date Collected:	10.29.2020 15:35	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**44.1**	9.94	mg/kg	11.02.2020 15:27		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:30	% Moisture:	
Seq Number:	3141114			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.30.2020 16:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.30.2020 16:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.30.2020 16:48	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	10.30.2020 16:48	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.30.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	10.30.2020 16:48	
o-Terphenyl	84-15-1	119	%	70-135	10.30.2020 16:48	

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Sample Id:	**FS10**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-014	Date Collected:	10.29.2020 15:35	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.30.2020 16:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.30.2020 16:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.30.2020 16:26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.30.2020 16:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.30.2020 16:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.30.2020 16:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.30.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	10.30.2020 16:26	
1,4-Difluorobenzene	540-36-3	108	%	70-130	10.30.2020 16:26	

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Sample Id:	**FS11**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-015	Date Collected:	10.29.2020 15:40	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**122**	9.98	mg/kg	11.02.2020 15:32		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:30	% Moisture:	
Seq Number:	3141114			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.30.2020 17:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	10.30.2020 17:08	
o-Terphenyl	84-15-1	116	%	70-135	10.30.2020 17:08	

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Sample Id:	**FS11**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-015	Date Collected:	10.29.2020 15:40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.30.2020 16:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.30.2020 16:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.30.2020 16:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.30.2020 16:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.30.2020 16:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.30.2020 16:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.30.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.30.2020 16:48	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.30.2020 16:48	

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Sample Id:	**FS12**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-016	Date Collected:	10.29.2020 15:45	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**66.0**	10.1	mg/kg	11.02.2020 15:37		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:30	% Moisture:	
Seq Number:	3141114			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.30.2020 17:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.30.2020 17:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.30.2020 17:28	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	10.30.2020 17:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.30.2020 17:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	10.30.2020 17:28	
o-Terphenyl	84-15-1	119	%	70-135	10.30.2020 17:28	

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LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-016	Date Collected:	10.29.2020 15:45	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.30.2020 17:10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.30.2020 17:10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.30.2020 17:10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.30.2020 17:10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.30.2020 17:10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.30.2020 17:10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.30.2020 17:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	10.30.2020 17:10	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.30.2020 17:10	

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LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-017	Date Collected:	10.29.2020 09:50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**559**	10.1	mg/kg	11.02.2020 15:43		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:30	% Moisture:	
Seq Number:	3141114			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.30.2020 18:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1150**	49.8	mg/kg	10.30.2020 18:08		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.30.2020 18:08	U	1
Total GRO-DRO	PHC628	**1150**	49.8	mg/kg	10.30.2020 18:08		1
Total TPH	PHC635	**1150**	49.8	mg/kg	10.30.2020 18:08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	10.30.2020 18:08	
o-Terphenyl	84-15-1	119	%	70-135	10.30.2020 18:08	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-017	Date Collected:	10.29.2020 09:50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.30.2020 17:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.30.2020 17:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.30.2020 17:33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.30.2020 17:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.30.2020 17:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.30.2020 17:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.30.2020 17:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.30.2020 17:33	
4-Bromofluorobenzene	460-00-4	108	%	70-130	10.30.2020 17:33	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-018	Date Collected:	10.29.2020 10:05	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**190**	49.9	mg/kg	11.02.2020 15:48		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	10.30.2020 09:30	% Moisture:	
Seq Number:	3141114			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.30.2020 17:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.30.2020 17:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.30.2020 17:48	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	10.30.2020 17:48	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.30.2020 17:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	10.30.2020 17:48	
o-Terphenyl	84-15-1	110	%	70-135	10.30.2020 17:48	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-018	Date Collected:	10.29.2020 10:05	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.30.2020 19:27	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.30.2020 19:27	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.30.2020 19:27	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.30.2020 19:27	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.30.2020 19:27	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.30.2020 19:27	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.30.2020 19:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.30.2020 19:27	
4-Bromofluorobenzene	460-00-4	123	%	70-130	10.30.2020 19:27	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-019	Date Collected:	10.29.2020 10:25	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**496**	10.1	mg/kg	11.02.2020 16:05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.02.2020 16:30	% Moisture:	
Seq Number:	3141201			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.02.2020 22:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.02.2020 22:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.02.2020 22:39	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	11.02.2020 22:39	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.02.2020 22:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	11.02.2020 22:39	
o-Terphenyl	84-15-1	126	%	70-135	11.02.2020 22:39	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-019	Date Collected:	10.29.2020 10:25	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.30.2020 19:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.30.2020 19:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.30.2020 19:50	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.30.2020 19:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.30.2020 19:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.30.2020 19:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.30.2020 19:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	10.30.2020 19:50	
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.30.2020 19:50	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-020	Date Collected:	10.29.2020 10:40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.9**	9.96	mg/kg	11.02.2020 16:10		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.02.2020 16:30	% Moisture:	
Seq Number:	3141201			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.02.2020 22:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.02.2020 22:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.02.2020 22:59	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	11.02.2020 22:59	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.02.2020 22:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-135	11.02.2020 22:59	
o-Terphenyl	84-15-1	125	%	70-135	11.02.2020 22:59	

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Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-020	Date Collected:	10.29.2020 10:40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.30.2020 20:12	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.30.2020 20:12	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.30.2020 20:12	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.30.2020 20:12	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.30.2020 20:12	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.30.2020 20:12	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.30.2020 20:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.30.2020 20:12	
4-Bromofluorobenzene	460-00-4	122	%	70-130	10.30.2020 20:12	

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LT Environmental, Inc., Arvada, CO

PLU 21 Brushy Draw 903H

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-021	Date Collected:	10.29.2020 11:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**174**	9.98	mg/kg	11.02.2020 16:27		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.02.2020 16:30	% Moisture:	
Seq Number:	3141201			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.02.2020 23:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.02.2020 23:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.02.2020 23:39	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	11.02.2020 23:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.02.2020 23:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-135	11.02.2020 23:39	
o-Terphenyl	84-15-1	119	%	70-135	11.02.2020 23:39	

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Sample Id:	**PH03**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-021	Date Collected:	10.29.2020 11:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.30.2020 20:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.30.2020 20:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.30.2020 20:35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.30.2020 20:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.30.2020 20:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.30.2020 20:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.30.2020 20:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.30.2020 20:35	
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.30.2020 20:35	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-022	Date Collected:	10.29.2020 12:45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.02.2020 09:32	% Moisture:	
Seq Number:	3141204			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**108**	50.3	mg/kg	11.02.2020 16:32		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.02.2020 16:30	% Moisture:	
Seq Number:	3141201			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.02.2020 23:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.02.2020 23:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.02.2020 23:59	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	11.02.2020 23:59	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.02.2020 23:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.02.2020 23:59	
o-Terphenyl	84-15-1	116	%	70-135	11.02.2020 23:59	

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PLU 21 Brushy Draw 903H

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	10.30.2020 08:48
Lab Sample Id:	676444-022	Date Collected:	10.29.2020 12:45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	10.30.2020 10:26	% Moisture:	
Seq Number:	3141118			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.30.2020 20:57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.30.2020 20:57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.30.2020 20:57	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.30.2020 20:57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.30.2020 20:57	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.30.2020 20:57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.30.2020 20:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.30.2020 20:57	
4-Bromofluorobenzene	460-00-4	121	%	70-130	10.30.2020 20:57	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 676444

LT Environmental, Inc.

PLU 21 Brushy Draw 903H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141203 — Matrix: Solid — Date Prep: 11.02.2020
MB Sample Id: 7714265-1-BLK — LCS Sample Id: 7714265-1-BKS — LCSD Sample Id: 7714265-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	246	98	90-110	4	20	mg/kg	11.02.2020 10:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141204 — Matrix: Solid — Date Prep: 11.02.2020
MB Sample Id: 7714266-1-BLK — LCS Sample Id: 7714266-1-BKS — LCSD Sample Id: 7714266-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	248	99	90-110	0	20	mg/kg	11.02.2020 14:15	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141203 — Matrix: Soil — Date Prep: 11.02.2020
Parent Sample Id: 676442-001 — MS Sample Id: 676442-001 S — MSD Sample Id: 676442-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2640	203	2830	94	2830	93	90-110	0	20	mg/kg	11.02.2020 10:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141203 — Matrix: Soil — Date Prep: 11.02.2020
Parent Sample Id: 676442-011 — MS Sample Id: 676442-011 S — MSD Sample Id: 676442-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	72.9	199	276	102	274	101	90-110	1	20	mg/kg	11.02.2020 11:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141204 — Matrix: Soil — Date Prep: 11.02.2020
Parent Sample Id: 676444-008 — MS Sample Id: 676444-008 S — MSD Sample Id: 676444-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	116	199	318	102	320	102	90-110	1	20	mg/kg	11.02.2020 14:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141204 — Matrix: Soil — Date Prep: 11.02.2020
Parent Sample Id: 676444-018 — MS Sample Id: 676444-018 S — MSD Sample Id: 676444-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	190	200	394	102	393	102	90-110	0	20	mg/kg	11.02.2020 15:54	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 676444

LT Environmental, Inc.

PLU 21 Brushy Draw 903H

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141112 — Matrix: Solid — Date Prep: 10.30.2020
MB Sample Id: 7714246-1-BLK — LCS Sample Id: 7714246-1-BKS — LCSD Sample Id: 7714246-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	985	99	989	99	70-135	0	35	mg/kg	10.30.2020 10:07	
Diesel Range Organics (DRO)	<50.0	1000	854	85	966	97	70-135	12	35	mg/kg	10.30.2020 10:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		90		127		70-135	%	10.30.2020 10:07
o-Terphenyl	116		81		116		70-135	%	10.30.2020 10:07

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141114 — Matrix: Solid — Date Prep: 10.30.2020
MB Sample Id: 7714248-1-BLK — LCS Sample Id: 7714248-1-BKS — LCSD Sample Id: 7714248-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1170	117	1130	113	70-135	3	35	mg/kg	10.30.2020 10:07	
Diesel Range Organics (DRO)	<50.0	1000	1340	134	1330	133	70-135	1	35	mg/kg	10.30.2020 10:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		127		126		70-135	%	10.30.2020 10:07
o-Terphenyl	94		132		130		70-135	%	10.30.2020 10:07

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141201 — Matrix: Solid — Date Prep: 11.02.2020
MB Sample Id: 7714382-1-BLK — LCS Sample Id: 7714382-1-BKS — LCSD Sample Id: 7714382-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	907	91	852	85	70-135	6	35	mg/kg	11.02.2020 18:36	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1000	100	70-135	4	35	mg/kg	11.02.2020 18:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		125		105		70-135	%	11.02.2020 18:36
o-Terphenyl	101		103		101		70-135	%	11.02.2020 18:36

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141112 — Matrix: Solid — Date Prep: 10.30.2020
MB Sample Id: 7714246-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.30.2020 09:47	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 676444

LT Environmental, Inc.

PLU 21 Brushy Draw 903H

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141114 Matrix: Solid Date Prep: 10.30.2020
MB Sample Id: 7714248-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.30.2020 09:47	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141201 Matrix: Solid Date Prep: 11.02.2020
MB Sample Id: 7714382-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.02.2020 18:16	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141112 Matrix: Soil Date Prep: 10.30.2020
Parent Sample Id: 676303-008 MS Sample Id: 676303-008 S MSD Sample Id: 676303-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	921	92	936	94	70-135	2	35	mg/kg	10.30.2020 11:07	
Diesel Range Organics (DRO)	1330	996	2430	110	2510	118	70-135	3	35	mg/kg	10.30.2020 11:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	131		132		70-135	%	10.30.2020 11:07
o-Terphenyl	134		116		70-135	%	10.30.2020 11:07

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141114 Matrix: Soil Date Prep: 10.30.2020
Parent Sample Id: 676442-001 MS Sample Id: 676442-001 S MSD Sample Id: 676442-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	875	88	840	84	70-135	4	35	mg/kg	10.30.2020 11:07	
Diesel Range Organics (DRO)	<50.1	1000	967	97	965	97	70-135	0	35	mg/kg	10.30.2020 11:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	134		128		70-135	%	10.30.2020 11:07
o-Terphenyl	128		133		70-135	%	10.30.2020 11:07

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 676444

LT Environmental, Inc.

PLU 21 Brushy Draw 903H

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141201 Matrix: Soil Date Prep: 11.02.2020
Parent Sample Id: 676514-007 MS Sample Id: 676514-007 S MSD Sample Id: 676514-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	837	84	838	84	70-135	0	35	mg/kg	11.02.2020 19:37	
Diesel Range Organics (DRO)	<50.2	1000	910	91	927	93	70-135	2	35	mg/kg	11.02.2020 19:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		133		70-135	%	11.02.2020 19:37
o-Terphenyl	118		123		70-135	%	11.02.2020 19:37

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141116 Matrix: Solid Date Prep: 10.30.2020
MB Sample Id: 7714253-1-BLK LCS Sample Id: 7714253-1-BKS LCSD Sample Id: 7714253-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.105	105	70-130	4	35	mg/kg	10.30.2020 10:15	
Toluene	<0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	10.30.2020 10:15	
Ethylbenzene	<0.00200	0.100	0.0932	93	0.0916	92	71-129	2	35	mg/kg	10.30.2020 10:15	
m,p-Xylenes	<0.00400	0.200	0.186	93	0.184	92	70-135	1	35	mg/kg	10.30.2020 10:15	
o-Xylene	<0.00200	0.100	0.0937	94	0.0917	92	71-133	2	35	mg/kg	10.30.2020 10:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		101		101		70-130	%	10.30.2020 10:15
4-Bromofluorobenzene	87		87		85		70-130	%	10.30.2020 10:15

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141118 Matrix: Solid Date Prep: 10.30.2020
MB Sample Id: 7714254-1-BLK LCS Sample Id: 7714254-1-BKS LCSD Sample Id: 7714254-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.101	101	70-130	4	35	mg/kg	10.30.2020 12:07	
Toluene	<0.00200	0.100	0.103	103	0.0956	96	70-130	7	35	mg/kg	10.30.2020 12:07	
Ethylbenzene	<0.00200	0.100	0.104	104	0.0984	98	71-129	6	35	mg/kg	10.30.2020 12:07	
m,p-Xylenes	<0.00400	0.200	0.213	107	0.202	101	70-135	5	35	mg/kg	10.30.2020 12:07	
o-Xylene	<0.00200	0.100	0.104	104	0.0996	100	71-133	4	35	mg/kg	10.30.2020 12:07	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		103		103		70-130	%	10.30.2020 12:07
4-Bromofluorobenzene	107		109		109		70-130	%	10.30.2020 12:07

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

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QC Summary 676444

LT Environmental, Inc.

PLU 21 Brushy Draw 903H

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3141116 Matrix: Soil Date Prep: 10.30.2020

Parent Sample Id: 676442-001 MS Sample Id: 676442-001 S MSD Sample Id: 676442-001 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	0.107	107	0.107	107	70-130	0	35	mg/kg	10.30.2020 16:31	
Toluene	<0.00200	0.0998	0.100	100	0.101	101	70-130	1	35	mg/kg	10.30.2020 16:31	
Ethylbenzene	<0.00200	0.0998	0.0896	90	0.0921	92	71-129	3	35	mg/kg	10.30.2020 16:31	
m,p-Xylenes	<0.00399	0.200	0.178	89	0.184	92	70-135	3	35	mg/kg	10.30.2020 16:31	
o-Xylene	<0.00200	0.0998	0.0872	87	0.0895	90	71-133	3	35	mg/kg	10.30.2020 16:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		100		70-130	%	10.30.2020 16:31
4-Bromofluorobenzene	84		85		70-130	%	10.30.2020 16:31

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3141118 Matrix: Soil Date Prep: 10.30.2020

Parent Sample Id: 676444-008 MS Sample Id: 676444-008 S MSD Sample Id: 676444-008 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	0.115	115	0.116	115	70-130	1	35	mg/kg	10.30.2020 12:51	
Toluene	<0.00200	0.100	0.110	110	0.111	110	70-130	1	35	mg/kg	10.30.2020 12:51	
Ethylbenzene	<0.00200	0.100	0.112	112	0.114	113	71-129	2	35	mg/kg	10.30.2020 12:51	
m,p-Xylenes	<0.00401	0.200	0.228	114	0.233	116	70-135	2	35	mg/kg	10.30.2020 12:51	
o-Xylene	<0.00200	0.100	0.110	110	0.114	113	71-133	4	35	mg/kg	10.30.2020 12:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	10.30.2020 12:51
4-Bromofluorobenzene	111		113		70-130	%	10.30.2020 12:51

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Work Order No: 1076444

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 West Mermond
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		enaka@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 21 Brushy Draw 9/3/14	Turn Around	
Project Number:	012920031	Routine	X
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	Elizabeth Naka	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	1.0/0.8	Thermometer ID		
Received Intact:	Yes No	T-NM-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:	22	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
SW01	S	10/29/20	1245	0'-2'	1	X	X	X	composite
SW02			1425						
SW03			1430						
SW04			1435						
FS01			1315	2'					
FS02			1320						
FS03			1325						
FS04			1455						
FS05			1500						
FS06	↓	↓	1505	↓	↓	↓	↓	↓	↓

TAT starts the day recevied by the lab, if received by 4:30pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Cor Clifton	10.30.20 0848	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

XENCO LABORATORIES

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

Work Order No: 676444

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 West Mermond
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	enaka@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 4 Brushy Draw 903H	Turn Around	
Project Number:	01292003I	Routine	X
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	Elizabeth Naka	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank:	Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID	See Page 1	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS07	S	10/29/20	1520	2'	1	X	X	X
FS08			1525					
FS09			1530					
FS10			1535					
FS11			1540					
FS12			1545	↓				
PH01			0950	1'				
PH01A			1005	4'				
PH02			1025	1'				
PH02A	↓	↓	1040	4'	↓	↓	↓	↓

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

composite
↓
discrete
↓

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Cine Carter	10.30.20 0848	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

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Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 21 Brushy Draw 403H	Turn Around	
Project Number:	912920031	Routine	X
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	Elizabeth Naka	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank: Yes No	Wet Ice: Yes No	
Received Intact:	Yes No	Thermometer ID	See Page 1	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH03	S	10/29/20	1045	1'	1	X	X	X
PH03A	S	10/29/20	1100	4'	1	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

discrete
discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Cice Clifton	10.30.20 0848	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.30.2020 08.48.00 AM

Work Order #: 676444

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 10.30.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 10.30.2020

Jessica Kramer

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 12991

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707	5380	12991	C-141

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NRM2005160694 POKER LANE UNIT 21 BRUSHY DRAW 903H, thank you. This closure is approved.