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	NRM2019550034
District RP	
Facility ID	
Application ID	

#### **Release Notification**

#### **Responsible Party**

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289	
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647	
Contact email: Lynda.Laumbach@wpxenergy.com     Incident # (assigned by OCD)		
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220		

#### **Location of Release Source**

Latitude 32.0799323

Longitude -103.9563395 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Brushy Federal 35 #004H TB	Site Type: Production Facility
Date Release Discovered: 06/29/2020	API# (if applicable): 30-015-42290

Unit Letter	Section	Township	Range	County
Ν	35	258	29E	Eddy

Surface Owner: State X Federal Tribal Private (Name: \_

#### Nature and Volume of Release

	Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)				
Crude OilVolume Released (bbls):X Produced WaterVolume Released (bbls): 10		Volume Released (bbls):	Volume Recovered (bbls):Volume Recovered (bbls):		
		Volume Released (bbls): 10			
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?			
Condensate Volume Released (bbls)		Volume Released (bbls)	Volume Recovered (bbls)		
Natural Gas     Volume Released (Mcf)		Volume Released (Mcf)	Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		

Cause of Release:

Pinhole leak developed on PW line en route to water transfer pump causing an estimated 10bbl of PW to be released inside the lined secondary containment. All fluids were recovered with a vacuum truck.

Page ∠
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#### Oil Conservation Division

Incident ID	NRM2019550034
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?		
Yes X No			
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			

#### **Initial Response**

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

 $\overline{\mathbf{X}}$  The source of the release has been stopped.

 $\mathbf{X}$  The impacted area has been secured to protect human health and the environment.

X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

X All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Lynda Laumbach	Title: Environmental Specialist
Signature: Jorda Jambach	Date: 07/06/2020
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647
OCD Only	
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**Received by OCD: 12/15/2020 12:00:11 AM** Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 3 of 14
Incident ID	NRM2019550034
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?	$\geq 50$ (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?	X 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 X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗶 No
Did the release impact areas <b>not</b> 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.
- X Field data
- $\mathbf{X}$  Data table of soil contaminant concentration data
- X Depth to water determination
- X Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- X Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- X 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.

Received by OCD: 12	2/15/2020 12:00:11 AM State of New Mexico			<b>Page 4 of 1</b> 47
			Incident ID	NRM2019550034
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operator public health or the er failed to adequately ir addition, OCD accept and/or regulations. Printed Name: Signature: email: Lynda.Laurr	he information given above is true and complete to the loors are required to report and/or file certain release notinvironment. The acceptance of a C-141 report by the Convestigate and remediate contamination that pose a three tance of a C-141 report does not relieve the operator of Lynda Laumbach	fications and perfor OCD does not reliev at to groundwater, s responsibility for co	m corrective actions for rele e the operator of liability sh surface water, human health ompliance with any other fe nmental Specialist	eases which may endanger ould their operations have or the environment. In
OCD Only Received by: <u>Kar</u>	en Collins	Date:	4/20/2021	

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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	NRM2019550034
District RP	
Facility ID	
Application ID	

#### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. X Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. X Extents of contamination must be fully delineated. X Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Specialist Lynda Laumbach Printed Name: Date: 12/14/2020 Signature: Junda email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647 **OCD Only** Received by: Karen Collins Date: 4/20/2021X Approved Approved with Attached Conditions of Approval Denied Deferral Approved Karen Collins Date: 4/20/2021 Signature:

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eived by OC <u>D: 12/15/2020 12:00:11</u> AM			ŀ	M OIL CON ARTESIA D	SERVATION		
istrict I 25 N. French Dr., Hobbs, NM 88240 istrict II	State o Energy Mineral	f New Mex s and Natura		FEB 1 2			
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20 S. St. Francis Dr., Santa Fe, NM 87505		Fe, NM 875			<b>,</b>		
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lame of Company RKI E&P, LLC	246289	Contact	Zack Laird				
ddress 210 Park Ave. – Ste. 900, OKC,	OK 73102	^	No. 405-742-20				
acility Name: North Brushy Draw 35-4H		Facility Typ	e : Oil and Gas	Well	·		
urface Owner: Federal	Mineral Owner	: Federal		API No	o. 30-015-42290		
	LOCATIC	N OF REI	LEASE				
nit Letter Section Township Range Fe	et from the Nort	h/South Line	Feet from the	East/West Line	County		
35 25S 29E	175	FSL		2365FWL	Eddy		
	ntitude: 32.07932	65 Longitude	103 0554002				
La		E OF RELI					
ype of Release. Oil			Release: 30Bbls		e Recovered: 30Bbls		
ource of Release Tanks over ran because oil wasn	't hauled	1	our of Occurrenc 0800hrs MT		nd Hour of Discovery 15 – 0900hrs MT		
as Immediate Notice Given?				Patterson (left V)			
🛛 Yes 🗌 No	D D Not Required						
y Whom? Zack Laird		Date and Hour: 02/12/15 - 1530hrs CT					
/as a Watercourse Reached? □ Yes ⊠ No	<b>)</b>	If YES, Volume Impacting the Watercourse. N/A					
· · · · · · · · · · · · · · · · · · ·							
a Watercourse was Impacted, Describe Fully.* N/	A						
escribe Cause of Problem and Remedial Action Ta		•					
escribe Cause of Problem and Remedial Action 1a	ken.				,		
il tanks ran over during normal well production act	ivity because oil wa	sn't hauled.					
ispatched oil haulers to haul oil. Recovered oil from	m lined containment	with vacuum t	ruck and wash co	ntainment.			
escribe Area Affected and Cleanup Action Taken.*							
-							
Il fluid remained in secondary containment berm, 3	0/30Bbis recovered.						
hereby certify that the information given above is tr gulations all operators are required to report and/or ablic health or the environment. The acceptance of rould their operations have failed to adequately inve- the environment. In addition, NMOCD acceptance deral, state, or local laws and/or regulations.	file certain release r a C-141 report by th stigate and remediat	notifications and the NMOCD ma te contaminatio	d perform correct rked as "Final Re n that pose a thre	ive actions for rele port" does not reli at to ground water	eases which may endanger eve the operator of liability , surface water, human health		
and a result with and or regulations.			OIL CONS	ERVATION	DIVISION		
gnature:					$\hat{D}$		
nted Name: Zack Laird		Approved by E	Environmental Sp	ecialist: H	the		
tle: Sr. EHS Manager		Approval Date	2/17/15	5 Expiration I	Date: N/A		
nail Address: ZLaird@rkixn.com		Conditions of a	Approval:		· · · · ·		
mail Address: ZLaird@rkixp.com tte: 02/12/15 Phone: 405-	.~	Conditions of A lemediation	n per O.C.D. I	Rules & Guide	Ineshed		

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Oil Conservation Division

#### 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?	$\geq 50$ (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
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Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes X 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 <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🕅 No

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- X Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
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Received by OCD:	12/15/2020 12:00:11 AM State of New Mexico		Page 8 of 1				
			Incident ID				
Page 4	Oil Conservation Division		District RP	2RP-2814			
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OCD Only							
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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	2RP-2814
Facility ID	
Application ID	

#### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. X Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. X Extents of contamination must be fully delineated. X Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Specialist Lynda Laumbach Printed Name: Signature: Junda Tombach Date: 12/14/2020 email: Lynda.Laumbach@wpxenergy.com Telephone: (575)725-1647 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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December 14, 2020 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: North Brushy Federal 35 #004H Release Deferral Request (NRM2019550034 & 2RP-2814)

Mr. Bratcher,

This report summarizes the secondary containment inspection activities at the North Brushy Federal 35 #004H multi-well pad (Site). The topographic map of the Site is provided as Figure 01. On June 29, 2020, a produced water line inside secondary lined containment developed a pinhole leak releasing 10 barrels (bbls) of produced water into the containment. No fluids were observed outside the containment and all fluids were recovered using a water truck. A previous historical release occurred on February 12, 2015, 2RP-2814, due to an oil tank overflow releasing 30 bbls of oil. All fluids were reported to be recovered

Well Location: North Brushy Federal 35 #004H (& #005H)
API #: 30-015-42290
NMOCD Reference #: NRM2019550034, 2RP-2814
Site Location Description: Unit Letter N, Section 35, Township 25S, Range 29E
Release Latitude/Longitude: N32.0799323, W103.9563395
Land Jurisdiction: Federal
Agency Notification: New Mexico Oil Conservation Division (NMOCD), Artesia District Office

#### **NMOCD Site Characterization Standards**

The Closure criteria of this site was determined based on the New Mexico Administrative Code (NMAC) Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). Depth to groundwater at the site is estimated to be greater than 50 feet below ground surface (bgs). The Site is located within 300 feet of an OSE waterbody. Based on the criteria outlined above, the closure criteria from the NMOCD Table 1 are as follows:

- 600 milligrams per kilogram (mg/kg) Chloride
- 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX)
- 10 mg/kg Benzene
- 100 mg/kg Total Petroleum Hydrocarbons (TPH)

#### **Field Activities**

On July 7, 2020, WPX personnel were onsite to confirm the release extent. The area of interest is located on Figure 02. The secondary liner containment was washed on July 14, 2020. The liner inspection was completed July 15, 2020. The liner was found to be compromised in three locations marked on Figure 02 as BH01, BH02, and BH03. Samples were advanced at these three locations on August 6, 2020. On October 30, 2020 a Consultant was utilized to further delineate

underneath the liner. Final sampling was completed on November 19, 2020. Photographs of the described work are provided in Attachment 01.

#### **Sampling Activities**

Discrete samples were taken to confirm that contamination was contained to the Site surface and underneath the lined secondary containment. All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, labelled with sample name, date, Site name, and depth, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to the chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

#### Laboratory Analytical Results

The laboratory analytical results of impacted soils showed elevated levels of chlorides and TPH at BH01 and BH02 to a depth down to 0.5 feet bgs. The contamination cleared up to below standards at 6-6.5 feet and 2-2.5 feet bgs in corresponding CH01 and CH02, respectively. The sample locations are depicted in Figure 02. All sample results are summarized in Table 01 and complete laboratory results are provided in Attachment 02.

- Chloride samples ranged from 10.9 to 6,190 mg/kg
- BTEX analysis ranged from below the Laboratory detectable limit to 0.377 mg/kg
- Benzene analysis was below the Laboratory detectable limit
- TPH ranged from below the Laboratory detectable limit to 10,900 mg/kg

Based on soil analysis of DS01-DS04 the impacted area is estimated to be no greater than the dimensions of the lined secondary containment, 45 feet X 130 feet. A soil volume of 650 cubic yards and not exceeding 1,300 cubic yards is estimated to remain underneath the liner at a an average contamination depth of 4.5 feet bgs.

#### Conclusions

The liner inspection to address the release impacts from NRM2019550034 and 2RP-2814 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. The secondary containment was determined to be intact and functioning properly to contain releases. WPX requests no further action for these incidents currently. Once the Site is abandoned and approved for reclamation, WPX will conduct further soil testing and remove contamination until contaminant levels meet the closure criteria outlined above to comply with NMOCD and Bureau of Land Management standards for reclamation. The updated C-141s are attached to the beginning of this report.

If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@wpxenergy.com.

Best regards,

fonda forback

Lynda Laumbach Environmental Specialist

CC: Robert Hamlet, NMOCD Victoria Venegas, NMOCD

.

Attachments: Figure 01 Topography Figure 02 Site Map Table 01 Soil Sample Results Attachment 01 Photograph Log Attachment 02 Analytical Results

# Figures





Table



### TABLE 01SOIL SAMPLE ANALYTICAL RESULTS

#### North Brushy Federal 35 #004H NMOCD REFERENCE NUMBER: NRM2019550034 & 2RP-2814

Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
BH01	0.1 - 0.3	08/07/2020	<0.00200	<0.00200	<250	9780	1080	9780	10900	116
BH01A	0.3 - 0.5	08/07/2020	<0.00500	<0.00500	<249	9740	938	9740	10700	33.6
CH01	4 - 4.5	10/30/2020	<0.00200	<0.00200	<13.9	11.6	<11.5	11.6	11.6	6190
CH01	6 - 6.5	10/30/2020	<0.00200	<0.00200	<50.2	<50.2	<50.2	-	-	208
CH01	8 - 8.5	10/30/2020	<0.00200	<0.00200	<50.2	<50.2	<50.2	-	-	120
BH02	0.2 - 0.5	08/07/2020	<0.00250	0.377	<251	2900	399	2900	3300	5400
BH02A	2 - 2.5	08/07/2020	<0.00200	<0.00200	<49.8	81.6	<49.8	81.6	81.6	5630
CH02	2 - 2.5	10/30/2020	<0.00202	<0.00202	<49.9	<49.9	<49.9	-	-	64.3
CH02	4 - 4.5	10/30/2020	<0.00199	<0.00199	<50.3	<50.3	<50.3	-	-	34.2
CH02	6 - 6.5	10/30/2020	<0.00200	<0.00200	<50.1	<50.1	<50.1	-	-	148
CH02	8 - 8.5	10/30/2020	<0.00201	<0.00201	<49.8	<49.8	<49.8	-	-	136
BH03	0.2 - 0.5	08/07/2020	<0.00202	<0.00202	<50.1	<50.1	<50.1	-	-	43.4
BH03A	0.5 - 1	08/07/2020	<0.00200	<0.00200	<50.2	<50.2	<50.2	-	-	54.6
DS01	0.5	11/20/2020	<0.00199	<0.00199	<50.2	<50.2	<50.2	-	-	128.0
DS01A	1	11/20/2020	<0.00199	<0.00199	<49.9	<49.9	<49.9	-	-	63.6
DS02	0.5	11/20/2020	<0.00201	<0.00201	<50.1	<50.1	<50.1	-	-	66.4
DS02A	1	11/20/2020	<0.00199	<0.00199	<49.8	<49.8	<49.8	-	-	30.4
DS03	0.5	11/20/2020	<0.00201	<0.00201	<49.9	<49.9	<49.9	-	-	18.0
DS03A	1	11/20/2020	<0.00202	<0.00202	<50.1	<50.1	<50.1	-	-	27.1
DS04	0.5	11/20/2020	<0.002	<0.002	<49.8	<49.8	<49.8	-	-	10.9
DS04A	1	11/20/2020	<0.002	<0.002	<49.8	<49.8	<49.8	-	-	11.9
NMOCD Table 1 (	Closure Crite	ria	10	50	NE	NE	NE	-	100	600

1



Reference:	BTEX: benzene, toluene, ethylbenzene, and total xylenes	mg/kg: milligrams per kilogram		
	GRO: gasoline range organics	NMOCD: New Mexico Oil Conservation Division		
	DRO: diesel range organics	TPH: total petroleum hydrocarbons		
	ft bgs: feet below ground surface			
	NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018	3 criteria for soils impacted based on characterization		

## Attachment 01: Photograph Log



Picture 1- Liner tear at BH01	Picture 2- Liner tear at BH02
6-Aug-20	6-Aug-20
Picture 3- Liner tear at BH03	Picture 4- East face, Northwest edge of TB
<image/>	<image/>



Picture 5- West face, Northwest edge of TB	Picture 6- East face, west side of TB
6-Aug-20	6-Aug-20
Distance 7 Marth from south other of TD	
Picture 7- West face, south edge of TB	Picture 8- East face, south side of TB
<image/>	<image/>



Picture 9- North face, south edge of TB 20-Nov-20	Picture 10- West face,east side of TB 20-Nov-20
Picture 11- West face, east edge of TB	Picture 12- North face, west side of TB
20-Nov-20	20-Nov-20

### Attachment 02: Analytical Reports

🔅 eurofins

Project Id:

**Project Location:** 

**Contact:** 

Г

Environment Testing Xenco

Lynda Laumbach

Eddy County, New Mexico

#### Certificate of Analysis Summary 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

#### Project Name: North Brushy Draw 35-04 H

**Date Received in Lab:** Fri 11.20.2020 14:35

**Report Date:** 11.25.2020 07:29

Project Manager: Jessica Kramer

	Lab Id:	678647-0	01	678647-0	02	678647-0	003	678647-	004	678647-0	005	678647-0	006
Analysis Requested	Field Id:	DS01		DS01 /	4	DS02		DS02 A		DS03		DS03 A	
Analysis Kequesieu	Depth:	0.5- ft		1- ft		0.5- ft		1- ft		0.5- ft		1- ft	
	Matrix:	SOIL											
	Sampled:	11.20.2020	10:00	11.20.2020	10:15	11.20.2020	10:30	11.20.2020	10:40	11.20.2020	10:50	11.20.2020	11:10
BTEX by EPA 8021B	Extracted:	11.21.2020	17:01	11.21.2020	17:01	11.21.2020	17:01	11.21.2020	17:04	11.21.2020	17:04	11.21.2020	17:04
	Analyzed:	11.22.2020	04:14	11.22.2020	04:36	11.22.2020	04:59	11.22.2020	09:08	11.22.2020	09:30	11.22.2020	09:52
	Units/RL:	mg/kg	RL										
Benzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202
Toluene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	<0.00201	0.00201	< 0.00202	0.00202
Ethylbenzene		< 0.00199	0.00199	<0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202
m,p-Xylenes		< 0.00398	0.00398	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00403	0.00403
o-Xylene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202
Total Xylenes		< 0.001990	0.001990	< 0.001990	0.001990	< 0.002010	0.002010	< 0.001990	0.001990	< 0.002010	0.002010	< 0.002020	0.002020
Total BTEX		< 0.001990	0.001990	< 0.001990	0.001990	< 0.002010	0.002010	< 0.001990	0.001990	<0.002010	0.002010	< 0.002020	0.002020
Inorganic Anions by EPA 300	Extracted:	11.23.2020	07:52	11.23.2020	07:52	11.23.2020	07:52	11.20.2020	17:47	11.20.2020	17:47	11.20.2020	17:47
	Analyzed:	11.23.2020	11:21	11.23.2020	11:26	11.23.2020	11:31	11.21.2020	03:23	11.21.2020	03:39	11.21.2020	03:54
	Units/RL:	mg/kg	RL										
Chloride		128	9.98	63.6	9.96	66.4	9.98	30.4	9.98	18.0	9.92	27.1	9.98
TPH by SW8015 Mod	Extracted:	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00
	Analyzed:	11.21.2020	19:39	11.21.2020	20:39	11.21.2020	21:00	11.21.2020	21:20	11.21.2020	21:41	11.21.2020	22:01
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<49.8	49.8	<49.9	49.9	<50.1	50.1
Diesel Range Organics (DRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<49.8	49.8	<49.9	49.9	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<49.8	49.8	<49.9	49.9	<50.1	50.1
Total TPH		<50.20	50.20	<49.90	49.90	<50.10	50.10	<49.80	49.80	<49.90	49.90	<50.10	50.10

BRL - Below Reporting Limit

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

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Project Id:

#### Certificate of Analysis Summary 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

#### Project Name: North Brushy Draw 35-04 H

**Date Received in Lab:** Fri 11.20.2020 14:35

**Report Date:** 11.25.2020 07:29

Project Manager: Jessica Kramer

Contact:	Lynda Laumbach
Project Location:	Eddy County, New Mexico

	Lab Id:	678647-00	)7	678647-0	08		
Analysis Requested	Field Id:	DS04		DS04 A	4		
Analysis Requested	Depth:	0.5- ft		1- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	11.20.2020 1	1:30	11.20.2020	11:40		
BTEX by EPA 8021B	Extracted:	11.21.2020 1	7:04	11.21.2020	17:04		
	Analyzed:	11.22.2020 1	0:15	11.22.2020	10:37		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene			0.00200		0.00200		
Toluene		< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene			0.00200		0.00200		
m,p-Xylenes		< 0.00399	0.00399	< 0.00399	0.00399		
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes		<0.002000 0	0.002000	< 0.002000	0.002000		
Total BTEX		<0.002000 0	0.002000	< 0.002000	0.002000		
Inorganic Anions by EPA 300	Extracted:	11.20.2020 1	7:47	11.20.2020	17:47		
	Analyzed:	11.21.2020 0	04:00	11.21.2020	04:05		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		10.9	10.0	11.9	10.0		
TPH by SW8015 Mod	Extracted:	11.21.2020 1	6:00	11.21.2020	16:00		
	Analyzed:	11.21.2020 2	2:21	11.21.2020	22:41		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8		
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8		
Total TPH		<49.80	49.80	<49.80	49.80		

BRL - Below Reporting Limit

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

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Received by OCD: 12/15/2020 12:00:11 AM

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#### Analytical Report 678647

#### for

#### WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

North Brushy Draw 35-04 H

#### 11.25.2020

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) Received by OCD: 12/15/2020 12:00:11 AM

11.25.2020

Project Manager: **Lynda Laumbach WPX Energy Permian Basin, LLC** 5315 Buena Vista Dr. Carlsbad, NM 88220

Reference: Eurofins Xenco, LLC Report No(s): **678647 North Brushy Draw 35-04 H** Project Address: Eddy County, New Mexico

#### Lynda Laumbach:

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) 678647. 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. 678647 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,

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Jessica Kramer Project Manager

A Small Business and Minority Company

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#### Sample Cross Reference 678647

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
DS01	S	11.20.2020 10:00	0.5 ft	678647-001
DS01 A	S	11.20.2020 10:15	1 ft	678647-002
DS02	S	11.20.2020 10:30	0.5 ft	678647-003
DS02 A	S	11.20.2020 10:40	1 ft	678647-004
DS03	S	11.20.2020 10:50	0.5 ft	678647-005
DS03 A	S	11.20.2020 11:10	1 ft	678647-006
DS04	S	11.20.2020 11:30	0.5 ft	678647-007
DS04 A	S	11.20.2020 11:40	1 ft	678647-008

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#### **CASE NARRATIVE**

Client Name: WPX Energy Permian Basin, LLC Project Name: North Brushy Draw 35-04 H

Project ID: Work Order Number(s): 678647 Report Date: *11.25.2020* Date Received: *11.20.2020* 

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

#### Environment Testi Xenco

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id:         DS01           Lab Sample Id:         678647-001		Matrix: Date Col	Soil lected: 11.20.2	2020 10:00		Date Received:11.2 Sample Depth: 0.5 f		.55
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 11.23.2	2020 07:52		% Moisture: Basis: Wet	W/-:-1-4	
Seq Number: 3143163						Dasis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	128	9.98		mg/kg	11.23.2020 11:21		1
Analytical Method: TPH by SW80	015 Mod					Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3143020	15 Mod	Date Prej	p: 11.21.2	2020 16:00		% Moisture:	8015P Weight	
Tech: MAB Analyst: CAC	)15 Mod Cas Number	Date Prej Result	p: 11.21.2 <b>RL</b>	2020 16:00		% Moisture:		Dil
Tech: MAB Analyst: CAC Seq Number: 3143020				2020 16:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	Cas Number	Result	RL	2020 16:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.2	2020 16:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 19:39	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.2 <50.2	RL 50.2 50.2	2020 16:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 19:39 11.21.2020 19:39	Weight Flag U U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.20	RL 50.2 50.2 50.2	2020 16:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 19:39 11.21.2020 19:39 11.21.2020 19:39 11.21.2020 19:39	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.20	<b>RL</b> 50.2 50.2 50.2 50.2 50.20		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 19:39 11.21.2020 19:39 11.21.2020 19:39 11.21.2020 19:39 Analysis Date	Weight Flag U U U U Flag	1 1 1

Xenco

#### **Certificate of Analytical Results 678647**

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: Lab Sample Id	<b>DS01</b> d: 678647-001		Matrix: Date Collected	Soil d: 11.20.2020 10:00		ate Received	:11.20.2020 14 :0.5 ft	4:35
Analytical Me	ethod: BTEX by EPA 802	21B			Р	rep Method:	SW5035A	
Tech:	MAB							
Analyst:	MAB		Date Prep:	11.21.2020 17:01	, ,	Moisture: asis:	Wet Weight	
Seq Number:	3143103				D	asis.	wet weight	
Doromotor		Cas Number	Recult DI		Inita	Analysia Da	to Flog	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	11.22.2020 04:14	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	11.22.2020 04:14	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	11.22.2020 04:14	U	1
m,p-Xylenes	179601-23-1	< 0.00398	8 0.00398		mg/kg	11.22.2020 04:14	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	11.22.2020 04:14	U	1
Total Xylenes	1330-20-7	< 0.001990	) 0.001990		mg/kg	11.22.2020 04:14	U	1
Total BTEX		< 0.001990	) 0.001990		mg/kg	11.22.2020 04:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	11.22.2020 04:14		
1,4-Difluorobenzene		540-36-3	102	%	70-130	11.22.2020 04:14		

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: <b>DS01 A</b> Lab Sample Id:678647-002		Matrix: Date Col	Soil llected: 11.20.	2020 10:15		Date Received:11.2 Sample Depth: 1 ft		:35
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 11.23.	2020 07:52		% Moisture: Basis: Wet	Waiaht	
Seq Number: 3143163						basis. wei	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.6	9.96		mg/kg	11.23.2020 11:26		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW	8015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	15 Mod Cas Number	Date Prej <b>Result</b>	F.	2020 16:00	Units	% Moisture: Basis: Wet	t Weight	Dil
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	Cas Number	Result	RL	2020 16:00	Units	% Moisture: Basis: Wet Analysis Date	t Weight Flag	Dil
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	<b>RL</b> 49.9	2020 16:00	mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 20:39	t Weight Flag U	<b>Dil</b> 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	<b>RL</b> 49.9 49.9	2020 16:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 20:39 11.21.2020 20:39	t Weight Flag U U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result <49.9	<b>RL</b> 49.9	2020 16:00	mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 20:39	t Weight Flag U	1 1
Tech:MABAnalyst:CACSeq Number:3143020ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.90	<b>RL</b> 49.9 49.9 49.9	2020 16:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 20:39 11.21.2020 20:39 11.21.2020 20:39 11.21.2020 20:39	t Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.90	<b>RL</b> 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 20:39 11.21.2020 20:39 11.21.2020 20:39 11.21.2020 20:39 Analysis Date	t Weight Flag U U U U Flag	1 1 1

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: Lab Sample Id	<b>DS01 A</b> d: 678647-002		Matrix: Date Collected	Soil d: 11.20.2020 10:15	Date Recei Sample De	ved:11.20.2020 14 oth: 1 ft	:35
Analytical Me	ethod: BTEX by EPA 802	21B			Prep Metho	d: SW5035A	
Tech:	MAB						
Analyst:	MAB		Date Prep:	11.21.2020 17:01	% Moisture Basis:	: Wet Weight	
Seq Number:	3143103				Dasis.	wet weight	
Paramotor		Cas Number	Recult DI	т	Inita Analysis	Data Flag	Di

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	11.22.2020 04:36	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
Total Xylenes	1330-20-7	< 0.001990	) 0.001990		mg/kg	11.22.2020 04:36	U	1
Total BTEX		< 0.001990	) 0.001990		mg/kg	11.22.2020 04:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.22.2020 04:36		
4-Bromofluorobenzene		460-00-4	118	%	70-130	11.22.2020 04:36		

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id:         DS02           Lab Sample Id:         678647-003		Matrix: Date Col	Soil llected: 11.20.2	2020 10:30		Date Received:11.2 Sample Depth: 0.5 f		:35
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 11.23.2	2020 07:52		% Moisture: Basis: Wet	W:-1-4	
Seq Number: 3143163			-			Basis. Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	66.4	9.98		mg/kg	11.23.2020 11:31		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	15 Mod Cas Number	Date Pre Result	p: 11.21.2	2020 16:00	Units	% Moisture:	8015P Weight Flag	Dil
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter			F.	2020 16:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	2020 16:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3143020	Cas Number PHC610	Result <50.1	RL 50.1	2020 16:00	mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:00	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.1 <50.1	RL 50.1 50.1	2020 16:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:00 11.21.2020 21:00	Weight Flag U U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.10	RL 50.1 50.1 50.1	2020 16:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Mnalysis Date 11.21.2020 21:00 11.21.2020 21:00 11.21.2020 21:00 11.21.2020 21:00	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Yotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.10	<b>RL</b> 50.1 50.1 50.1 50.10		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:00 11.21.2020 21:00 11.21.2020 21:00 11.21.2020 21:00 Analysis Date	Weight Flag U U U U U Flag	1 1 1

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#### **Certificate of Analytical Results 678647**

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: Lab Sample I	<b>DS02</b> d: 678647-003	Matrix: Date Collected	Soil d: 11.20.2020 10:30	Date Received Sample Depth	d:11.20.2020 14:35 n: 0.5 ft
-	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/ <b>3 5 1</b> .	
Analyst:	MAB	Date Prep:	11.21.2020 17:01	% Moisture: Basis:	Wet Weight
Seq Number:	3143103			Dasis.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	11.22.2020 04:59	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	11.22.2020 04:59	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	11.22.2020 04:59	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	11.22.2020 04:59	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	11.22.2020 04:59	U	1
Total Xylenes	1330-20-7	< 0.002010	0.002010		mg/kg	11.22.2020 04:59	U	1
Total BTEX		< 0.002010	0.002010		mg/kg	11.22.2020 04:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	11.22.2020 04:59		
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.22.2020 04:59		

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id:DS02 ALab Sample Id:678647-004		Matrix: Date Col	Soil llected: 11.20.	2020 10:40		Date Received:11.2 Sample Depth: 1 ft	0.2020 14	:35
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 11.20.	2020 17:47		% Moisture: Basis: Wet	<b>W</b> 7 * 1 /	
Seq Number: 3142929			-			Dasis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.4	9.98		mg/kg	11.21.2020 03:23		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	15 Mod Cas Number	Date Prej Result	p: 11.21. <b>RL</b>	2020 16:00	Units	% Moisture:	3015P Weight Flag	Dil
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter			F.	2020 16:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	2020 16:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result <49.8	<b>RL</b> 49.8	2020 16:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:20	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8	2020 16:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:20 11.21.2020 21:20	Weight Flag U U	1 1
Tech: MAB Analyst: CAC Seq Number: 3143020	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.8 <49.8 <49.8 <49.80	<b>RL</b> 49.8 49.8 49.8	2020 16:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Mnalysis Date 11.21.2020 21:20 11.21.2020 21:20 11.21.2020 21:20 11.21.2020 21:20	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	<b>Result</b> <49.8 <49.8 <49.8 <49.80	<b>RL</b> 49.8 49.8 49.8 49.8 49.80		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:20 11.21.2020 21:20 11.21.2020 21:20 11.21.2020 21:20 Analysis Date	Weight Flag U U U U U Flag	1 1 1
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## **Certificate of Analytical Results 678647**

## WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: Lab Sample Id	<b>DS02 A</b> d: 678647-004		Matrix: Date Collected	Soil d: 11.20.2020 10:40		Date Received Sample Depth	:11.20.2020 14 :1 ft	:35
Analytical Me	ethod: BTEX by EPA 802	21B			]	Prep Method:	SW5035A	
Tech:	MAB							
Analyst:	MAB		Date Prep:	11.21.2020 17:04		% Moisture: Basis:	Wet Weight	
Seq Number:	3142998					Dasis.	wet weight	
Paramotor		Cas Number	Recult DI	-	Tuito	Analysis De		Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
m,p-Xylenes	179601-23-1	< 0.00398	3 0.00398		mg/kg	11.22.2020 09:08	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
Total Xylenes	1330-20-7	< 0.001990	) 0.001990		mg/kg	11.22.2020 09:08	U	1
Total BTEX		< 0.001990	) 0.001990		mg/kg	11.22.2020 09:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.22.2020 09:08		
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.22.2020 09:08		

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#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: <b>DS03</b> Lab Sample Id: 678647-005		Matrix: Date Col	Soil lected: 11.20	.2020 10:50		Date Received:11.2 Sample Depth: 0.5		:35
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Prep	p: 11.20	.2020 17:47		% Moisture: Basis: Wet	Waiaht	
Seq Number: 3142929						Dasis. wei	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.0	9.92		mg/kg	11.21.2020 03:39		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW	8015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3143020	15 Mod	Date Prej	p: 11.21	.2020 16:00		% Moisture:	8015P t Weight	
Tech: MAB Analyst: CAC	15 Mod Cas Number	Date Prej Result	p: 11.21 <b>RL</b>	.2020 16:00	Units	% Moisture:		Dil
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter				.2020 16:00	Units mg/kg	% Moisture: Basis: Wet	t Weight	<b>Dil</b>
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	.2020 16:00		% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3143020	Cas Number PHC610	Result <49.9	<b>RL</b> 49.9	.2020 16:00	mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:41	t Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	<b>RL</b> 49.9 49.9	.2020 16:00	mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 11.21.2020 21:41 11.21.2020 21:41	t Weight Flag U U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.90	<b>RL</b> 49.9 49.9 49.9	.2020 16:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:41 11.21.2020 21:41 11.21.2020 21:41 11.21.2020 21:41	t Weight Flag U U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.90	<b>RL</b> 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 21:41 11.21.2020 21:41 11.21.2020 21:41 11.21.2020 21:41 11.21.2020 21:41	t Weight Flag U U U U Flag	1 1 1

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## **Certificate of Analytical Results 678647**

## WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: Lab Sample I	<b>DS03</b> d: 678647-005	Matrix: Date Collected	Soil d: 11.20.2020 10:50	Date Received Sample Depth	d:11.20.2020 14:35 :: 0.5 ft
•	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.21.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3142998			Dasis.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	11.22.2020 09:30	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
Total Xylenes	1330-20-7	< 0.002010	0.002010		mg/kg	11.22.2020 09:30	U	1
Total BTEX		< 0.002010	0.002010		mg/kg	11.22.2020 09:30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	11.22.2020 09:30		
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.22.2020 09:30		

#### **Certificate of Analytical Results 678647**

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: <b>DS03 A</b> Lab Sample Id:678647-006		Matrix: Date Co	Soil llected: 11.20.	2020 11:10		Date Received:11.2 Sample Depth: 1 ft	0.2020 14	:35
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	OP	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 11.20.	2020 17:47		% Moisture: Basis: Wet	W:-1-4	
Seq Number: 3142929						Dasis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.1	9.98		mg/kg	11.21.2020 03:54		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	15 Mod Cas Number	Date Pre Result	ep: 11.21. RL	2020 16:00	Units	% Moisture:	3015P Weight Flag	Dil
Tech: MAB Analyst: CAC Seq Number: 3143020				2020 16:00	<b>Units</b> mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter	Cas Number	Result	RL	2020 16:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.1	<b>RL</b> 50.1	2020 16:00	mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:01	Weight Flag	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.1 <50.1	RL 50.1 50.1	2020 16:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:01 11.22.2020 22:01	Weight Flag U U	1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.10	RL 50.1 50.1 50.1	2020 16:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Mnalysis Date 11.21.2020 22:01 11.21.2020 22:01 11.21.2020 22:01 11.21.2020 22:01	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.10	<b>RL</b> 50.1 50.1 50.1 50.1 50.10		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Mnalysis Date 11.21.2020 22:01 11.21.2020 22:01 11.21.2020 22:01 11.21.2020 22:01 11.21.2020 22:01 Mnalysis Date	Weight Flag U U U U U	1 1 1

#### **Certificate of Analytical Results 678647**

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: Lab Sample I	<b>DS03 A</b> d: 678647-006	Matrix: Date Collected	Soil d: 11.20.2020 11:10	Date Received Sample Depth	d:11.20.2020 14:35 :: 1 ft
•	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/ 34 1	
Analyst:	MAB	Date Prep:	11.21.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3142998			Dasis.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	11.22.2020 09:52	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
Total Xylenes	1330-20-7	< 0.002020	0.002020		mg/kg	11.22.2020 09:52	U	1
Total BTEX		< 0.002020	0.002020		mg/kg	11.22.2020 09:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	11.22.2020 09:52		
4-Bromofluorobenzene		460-00-4	118	%	70-130	11.22.2020 09:52		

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#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: 1 Lab Sample Id: 6	<b>DS04</b> 678647-007		Matrix: Date Co	Soil ollected: 11.20.	.2020 11:30		Date Received:11.2 Sample Depth: 0.5		
Analytical Metho	od: Inorganic Anion	ns by EPA 300					Prep Method: E30	OP	
Tech: N	MAB								
Analyst: N	MAB		Date Pre	ep: 11.20.	.2020 17:47		% Moisture: Basis: Wet	W/-:-l-4	
Seq Number: 3	3142929						Dasis: wet	t Weight	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	10.9	10.0		mg/kg	11.21.2020 04:00		1
5	od: TPH by SW801: MAB	5 Mod					Prep Method: SW	8015P	
Tech: M Analyst: C	2	5 Mod	Date Pre	ер: 11.21.	.2020 16:00		% Moisture:	8015P t Weight	
Tech: M Analyst: C Seq Number: 3	MAB CAC	5 Mod Cas Number	Date Pre Result	ep: 11.21. <b>RL</b>	.2020 16:00		% Moisture:		Dil
Tech: M Analyst: C Seq Number: 3 Parameter	MAB CAC			1	.2020 16:00		% Moisture: Basis: Wet	t Weight	<b>Dil</b>
Tech: M Analyst: C Seq Number: 3 Parameter	MAB CAC 3143020 /drocarbons (GRO)	Cas Number	Result	RL	.2020 16:00	Units	% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: M Analyst: C Seq Number: 3 Parameter Gasoline Range Hy	MAB CAC 3143020 ydrocarbons (GRO) nics (DRO)	Cas Number PHC610	Result <49.8	<b>RL</b> 49.8	.2020 16:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:21	t Weight Flag U	1
Tech: M Analyst: C Seq Number: 3 Parameter Gasoline Range Hy Diesel Range Orgar Motor Oil Range Hydr	MAB CAC 3143020 ydrocarbons (GRO) nics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8	.2020 16:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:21 11.21.2020 22:21	t Weight Flag U U	1
Tech: M Analyst: C Seq Number: 3 Parameter Gasoline Range Hy Diesel Range Organ	MAB CAC 3143020 ydrocarbons (GRO) nics (DRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.8 <49.8 <49.8 <49.8 <49.80	RL 49.8 49.8 49.8	.2020 16:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Mnalysis Date 11.21.2020 22:21 11.21.2020 22:21 11.21.2020 22:21 11.21.2020 22:21	t Weight Flag U U U	1 1 1
Tech: M Analyst: C Seq Number: 3 Parameter Gasoline Range Hyd Diesel Range Orgar Motor Oil Range Hydn Fotal TPH	MAB CAC 3143020 /drocarbons (GRO) nics (DRO) trocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	<b>Result</b> <49.8 <49.8 <49.8 <49.8 <49.80	RL 49.8 49.8 49.8 49.8 49.80		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:21 11.21.2020 22:21 11.21.2020 22:21 11.21.2020 22:21 Analysis Date	t Weight Flag U U U U U Flag	1 1 1

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## **Certificate of Analytical Results 678647**

## WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: Lab Sample I	<b>DS04</b> d: 678647-007		Matrix: Date Collected	Soil d: 11.20.2020 11:30		Date Received Sample Depth		14:35
Analytical Me	ethod: BTEX by EPA 80	21B				Prep Method:	SW5035A	
Tech:	MAB							
Analyst:	MAB		Date Prep:	11.21.2020 17:04		% Moisture: Basis:	Wet Weight	
Seq Number:	3142998					Dusis.	wet weight	
Paramotor		Cas Number	Result DI		Unita	Analysis D	oto Flog	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.22.2020 10:15	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
Total Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	11.22.2020 10:15	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	11.22.2020 10:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	11.22.2020 10:15		
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.22.2020 10:15		

#### **Certificate of Analytical Results 678647**

#### WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: <b>DS04 A</b> Lab Sample Id: 678647-008		Matrix: Date Coll	Soil lected: 11.20.202	20 11:40	Date Received:11.2 Sample Depth: 1 ft	0.2020 14:	.55
Analytical Method: Inorganic Anic	ons by EPA 300				Prep Method: E30	0 <b>P</b>	
Tech: MAB							
Analyst: MAB		Date Prep	p: 11.20.202	20 17:47	% Moisture:	<b>X</b> 7 · 1 /	
Seq Number: 3142929		1	L.		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.9	10.0	mg/kg	11.21.2020 04:05		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3143020	15 Mod	Date Prep	p: 11.21.202	20 16:00	% Moisture:	3015P Weight	
Tech: MAB Analyst: CAC	15 Mod Cas Number	Date Prep Result	p: 11.21.202 RL	20 16:00 Units	% Moisture:		Dil
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter					% Moisture: Basis: Wet	Weight	Dil
Tech: MAB Analyst: CAC Seq Number: 3143020	Cas Number	Result	RL	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.8	<b>RL</b> 49.8	Units mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:41	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:41 11.21.2020 22:41	Weight Flag U U	1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.8 <49.8 <49.8 <49.8 <49.80	<b>RL</b> 49.8 49.8 49.8 49.8 49.80	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:41 11.21.2020 22:41 11.21.2020 22:41 11.21.2020 22:41	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3143020 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <49.8 <49.8 <49.8 <49.8 <49.80	RL           49.8           49.8           49.8           49.8           49.80           6 Recovery         U	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.21.2020 22:41 11.21.2020 22:41 11.21.2020 22:41 11.21.2020 22:41 11.21.2020 22:41 ts Analysis Date	Weight Flag U U U U Flag	1 1 1

#### **Certificate of Analytical Results 678647**

## WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Matrix: Date Collecte	Soil ed: 11.20.2020 11:40	Date Received Sample Depth	d:11.20.2020 14:35 n: 1 ft
		Prep Method:	SW5035A
Date Prep:	11.21.2020 17:04	/	Wet Weight
		Dusis.	wei weight
	Date Collecte	Date Collected: 11.20.2020 11:40	Date Collected: 11.20.2020 11:40 Sample Depth Prep Method: % Moisture:

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.22.2020 10:37	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
Total Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	11.22.2020 10:37	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	11.22.2020 10:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	11.22.2020 10:37		
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.22.2020 10:37		

#### Environment Testing Xenco

# **Flagging Criteria**

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- 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			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le 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 678647

#### WPX Energy Permian Basin, LLC

North Brushy Draw 35-04 H

Seq Number:	<b>Inorganic Anions by EP</b> A 3142929 7715683-1-BLK			Matrix:	Solid 7715683-1	BKS			ep Meth Date Pr	ep: 11.2	0P 20.2020 5683-1-BSD	
MB Sample Id:		pike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flee
Parameter	Result Amo	ount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride	<10.0	250	252	101	254	102	90-110	1	20	mg/kg	11.21.2020 02:01	
Analytical Method:	Inorganic Anions by EPA	A 300						Pr	ep Meth			
Seq Number:	3143163			Matrix:	Solid 7715704-1	DVC		LCSI	Date Pr	-	23.2020	
MB Sample Id:	7715704-1-BLK		LCS Sal				Limita		RPD	Units	5704-1-BSD	
Parameter	MB Sj Result Amo	spike ount	Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	247	99	244	98	90-110	1	20	mg/kg	11.23.2020 09:01	
Analytical Method:	Inorganic Anions by EPA	A 300						Pr	ep Meth	od: E30	0P	
Seq Number:	3142929			Matrix:		1.0			Date Pr	-	20.2020	
Parent Sample Id:	678622-001				678622-00				-		622-001 SD	
Parameter	Parent Sj Result Amo	spike ount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	209	105	201	101	90-110	4	20	mg/kg	11.21.2020 02:16	
Analytical Method:	Inorganic Anions by EPA	A 300						Pr	ep Meth	od: E30	0P	
Analytical Method: Seq Number:	<b>Inorganic Anions by EP</b> A 3142929	A 300		Matrix:	Soil			Pr	ep Meth Date Pr		0P 20.2020	
		A 300			Soil 678647-00	)4 S			Date Pr	ep: 11.2		
Seq Number:	3142929 678647-004 Parent Sp	pike	MS Sar MS	nple Id: MS	678647-00 MSD	MSD	Limits		Date Pr D Sample <b>RPD</b>	ep: 11.2	20.2020 647-004 SD Analysis	Flag
Seq Number: Parent Sample Id:	3142929 678647-004	pike	MS Sar	nple Id:	678647-00		<b>Limits</b> 90-110	MSI	Date Pr D Sample	ep: 11.2 e Id: 678	20.2020 647-004 SD	Flag
Seq Number: Parent Sample Id: <b>Parameter</b>	3142929 678647-004 Parent Sp Result Amo	spike ount	MS Sar MS Result	nple Id: MS %Rec	678647-00 MSD Result	MSD %Rec		MSI %RPD	Date Pr D Sample RPD Limit	ep: 11.2 e Id: 678 Units	20.2020 647-004 SD Analysis Date	Flag
Seq Number: Parent Sample Id: <b>Parameter</b> Chloride	3142929 678647-004 Parent Sp Result Amo 30.4	<b>bpike</b> ount 200	MS Sar MS Result	nple Id: MS %Rec	678647-00 MSD Result	MSD %Rec		MSI %RPD 0	Date Pr D Sample <b>RPD</b> Limit 20	ep: 11.2 e Id: 6786 Units mg/kg	20.2020 647-004 SD Analysis Date 11.21.2020 03:29	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3142929 678647-004 Parent Sp Result Amo	<b>bpike</b> ount 200	MS Sar MS Result 229	mple Id: MS %Rec 99	678647-00 MSD Result 229	MSD %Rec		MSI %RPD 0	Date Pr D Sample <b>RPD</b> Limit 20	ep: 11.2 e Id: 678 Units mg/kg od: E30	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P	Flag
Seq Number: Parent Sample Id: <b>Parameter</b> Chloride	3142929 678647-004 Parent Sy Result Amo 30.4	<b>bpike</b> ount 200	MS Sar MS Result 229	mple Id: MS %Rec 99 Matrix:	678647-00 MSD Result 229	<b>MSD</b> %Rec 99		MSI %RPD 0 Pr	Date Pr D Sample RPD Limit 20 ep Methe Date Pr	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2	20.2020 647-004 SD Analysis Date 11.21.2020 03:29	Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3142929 678647-004 Parent Sp Result Amo 30.4 Inorganic Anions by EPA 3143163 678616-015 Parent Sp	spike ount 200 A 300 spike	MS Sar MS Result 229 MS Sar MS Sar	nple Id: MS %Rec 99 Matrix: nple Id: MS	678647-00 MSD Result 229 Soil 678616-01 MSD	MSD %Rec 99 5 S MSD		MSI %RPD 0 Pr	Date Pr D Sample RPD Limit 20 ep Meth Date Pr D Sample RPD	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD Analysis	Flag Flag
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3142929 678647-004 Parent Sp Result Amo 30.4 Inorganic Anions by EPA 3143163 678616-015	spike ount 200 A 300 spike	MS Sar MS Result 229 MS Sar	nple Id: MS %Rec 99 Matrix: nple Id:	678647-00 MSD Result 229 Soil 678616-01	MSD %Rec 99	90-110	MSI <b>%RPD</b> 0 Pr MSI	Date Pr D Sample <b>RPD</b> Limit 20 ep Meth Date Pr D Sample	ep: 11.2 e Id: 678 Units mg/kg od: E30 ep: 11.2 e Id: 678	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter	3142929 678647-004 Parent Sj Result 30.4 Inorganic Anions by EPA 3143163 678616-015 Parent Sj Result Amo	pike ount 200 A 300 Spike ount	MS Sar MS Result 229 MS Sar MS Result	nple Id: MS %Rec 99 Matrix: nple Id: MS %Rec	678647-00 MSD Result 229 Soil 678616-02 MSD Result	MSD %Rec 99 5 S MSD %Rec	90-110 Limits	MSI %RPD 0 Pr MSI %RPD	Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2 e Id: 6780 Units	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD Analysis Date	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	3142929 678647-004 Parent Sy Result Amo 30.4 Inorganic Anions by EPA 3143163 678616-015 Parent Sy Result Amo 85.6	Spike ount 200 A 300 Spike ount 199	MS Sar MS Result 229 MS Sar MS Result	nple Id: MS %Rec 99 Matrix: nple Id: MS %Rec	678647-00 MSD Result 229 Soil 678616-02 MSD Result	MSD %Rec 99 5 S MSD %Rec	90-110 Limits	MSI %RPD 0 Pr MSI %RPD 2	Date Pr Date Pr D Sample <b>RPD</b> Limit 20 ep Meth Date Pr D Sample <b>RPD</b> Limit 20	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2 e Id: 6780 Units mg/kg	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD Analysis Date 11.23.2020 09:17	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride	3142929 678647-004 Parent Sj Result 30.4 Inorganic Anions by EPA 3143163 678616-015 Parent Sj Result Amo	Spike ount 200 A 300 Spike ount 199	MS Sar MS Result 229 MS Sar MS Result 284	nple Id: MS %Rec 99 Matrix: nple Id: MS %Rec	678647-00 MSD Result 229 Soil 678616-02 MSD Result 291	MSD %Rec 99 5 S MSD %Rec	90-110 Limits	MSI %RPD 0 Pr MSI %RPD 2	Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr Date Pr	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2 e Id: 6780 Units mg/kg od: E30	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD Analysis Date 11.23.2020 09:17	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3142929 678647-004 Parent Sj Result Amo 30.4 Inorganic Anions by EPA 3143163 678616-015 Parent Sj Result Amo 85.6	Spike ount 200 A 300 Spike ount 199	MS Sar MS Result 229 MS Sar MS Result 284	nple Id: MS %Rec 99 Matrix: nple Id: MS %Rec 100 Matrix:	678647-00 MSD Result 229 Soil 678616-02 MSD Result 291	MSD %Rec 99 5 S MSD %Rec 103	90-110 Limits	MSI %RPD 0 Pr MSI %RPD 2 Pr	Date Pr D Sample RPD Limit 20 ep Meth Date Pr D Sample RPD Limit 20 ep Meth Date Pr	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD Analysis Date 11.23.2020 09:17	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3142929 678647-004 Parent Sp Result Amo 30.4 Inorganic Anions by EPA 3143163 678616-015 Parent Sp Result Amo 85.6 Inorganic Anions by EPA 3143163 678642-002 Parent Sp	Spike ount 200 A 300 Spike ount 199 A 300 Spike	MS Sar MS Result 229 MS Sar MS Result 284	nple Id: MS %Rec 99 Matrix: nple Id: MS %Rec 100 Matrix: nple Id: MS	678647-00 MSD Result 229 Soil 678616-02 MSD Result 291 Soil 678642-00 MSD	MSD %Rec 99 5 S MSD %Rec 103 )2 S MSD	90-110 Limits	MSI %RPD 0 Pr MSI %RPD 2 Pr	Date Pr D Sample RPD Limit 20 ep Meth Date Pr D Sample RPD Limit 20 ep Meth Date Pr	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD Analysis Date 11.23.2020 09:17	
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Chloride Analytical Method: Seq Number: Parent Sample Id:	3142929 678647-004 Parent Sp Result Amo 30.4 Inorganic Anions by EPA 3143163 678616-015 Parent Sp Result Amo 85.6 Inorganic Anions by EPA 3143163 678642-002	Spike ount 200 A 300 Spike ount 199 A 300 Spike	MS Sar MS Result 229 MS Sar MS Result 284 MS Sar MS Sar	nple Id: MS %Rec 99 Matrix: nple Id: MS %Rec 100 Matrix: nple Id:	678647-00 MSD Result 229 Soil 678616-02 MSD Result 291 Soil 678642-00	MSD %Rec 99 5 S MSD %Rec 103	90-110 <b>Limits</b> 90-110	MSI %RPD 0 Pr MSI %RPD 2 Pr MSI	Date Pr Date Pr D Sample RPD Limit 20 ep Meth Date Pr D Sample Limit 20 ep Meth Date Pr D Sample RPD Limit 20	ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2 e Id: 6780 Units mg/kg od: E30 ep: 11.2 e Id: 6780	20.2020 647-004 SD Analysis Date 11.21.2020 03:29 0P 23.2020 616-015 SD Analysis Date 11.23.2020 09:17 0P 23.2020 642-002 SD Analysis	Flag

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

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

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

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Final 1.000
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#### QC Summary 678647

#### WPX Energy Permian Basin, LLC

North Brushy Draw 35-04 H

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by S</b> 3143020 7715747-1	<b>W8015 M</b> I-BLK	od		Matrix: 1ple Id:	Solid 7715747-	1-BKS			rep Methe Date Pr D Sample	ep: 11.2	8015P 21.2020 5747-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	1180	118	1210	121	70-135	3	35	mg/kg	11.21.2020 18:58	
Diesel Range Organics	(DRO)	<50.0	1000	1060	106	1120	112	70-135	6	35	mg/kg	11.21.2020 18:58	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		130		1	14		110	)	70	-135	%	11.21.2020 18:58	
o-Terphenyl		130		1	11		116	i	70	-135	%	11.21.2020 18:58	

Analytical Method: Seq Number:	<b>TPH by SW8015 Mod</b> 3143020	Matrix: MB Sample Id:	Solid 7715747-1-BLK	Prep Method: Date Prep:			
Parameter Motor Oil Range Hydrocart	oons (MRO)	MB Result <50.0			J <b>nits</b> ng/kg	Analysis Date 11.21.2020 18:38	Flag

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH by S</b> 3143020 678647-00		od		Matrix: nple Id:	Soil 678647-00	)1 S			ep Meth Date Pr D Sample	rep: 11.2	8015P 21.2020 647-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.0	1000	1070	107	1130	113	70-135	5	35	mg/kg	11.21.2020 19:59	
Diesel Range Organics (	(DRO)	<50.0	1000	1040	104	996	100	70-135	4	35	mg/kg	11.21.2020 19:59	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	19		111		70	-135	%	11.21.2020 19:59	
o-Terphenyl				1	09		109		70	-135	%	11.21.2020 19:59	

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3143103 7715708-1-BLK	B	LCS San	Matrix: nple Id:	Solid 7715708-1	I-BKS			rep Methe Date Pr D Sample	ep: 11.2	5035A 21.2020 5708-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.106	106	0.0977	98	70-130	8	35	mg/kg	11.21.2020 18:51	
Toluene	< 0.00200	0.100	0.0971	97	0.0905	91	70-130	7	35	mg/kg	11.21.2020 18:51	
Ethylbenzene	< 0.00200	0.100	0.100	100	0.0945	95	71-129	6	35	mg/kg	11.21.2020 18:51	
m,p-Xylenes	< 0.00400	0.200	0.205	103	0.195	98	70-135	5	35	mg/kg	11.21.2020 18:51	
o-Xylene	< 0.00200	0.100	0.100	100	0.0963	96	71-133	4	35	mg/kg	11.21.2020 18:51	
Surrogate	MB %Rec	MB Flag	_	CS Rec	LCS Flag	LCSE %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	115		1	03		100		70	-130	%	11.21.2020 18:51	
4-Bromofluorobenzene	119		1	06		107		70	-130	%	11.21.2020 18:51	

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

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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Released to Imaging: 4/20/2021 1:32:12 PM

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Final 1.000

#### QC Summary 678647

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#### WPX Energy Permian Basin, LLC

North Brushy Draw 35-04 H

Analytical Method:	BTEX by EPA 8021	IB						Р	rep Meth	od: SW	5035A	
Seq Number:	3142998		]	Matrix:	Solid				Date Pr	ep: 11.2	21.2020	
MB Sample Id:	7715709-1-BLK		LCS San	nple Id:	7715709-	1-BKS		LCS	D Sample	e Id: 771	5709-1-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	0.0974	97	0.0977	98	70-130	0	35	mg/kg	11.22.2020 07:03	
Toluene	< 0.00200	0.100	0.0908	91	0.0909	91	70-130	0	35	mg/kg	11.22.2020 07:03	
Ethylbenzene	< 0.00200	0.100	0.0943	94	0.0937	94	71-129	1	35	mg/kg	11.22.2020 07:03	
m,p-Xylenes	< 0.00400	0.200	0.193	97	0.192	96	70-135	1	35	mg/kg	11.22.2020 07:03	
o-Xylene	< 0.00200	0.100	0.0960	96	0.0963	96	71-133	0	35	mg/kg	11.22.2020 07:03	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	103		9	97		100		70	-130	%	11.22.2020 07:03	
4-Bromofluorobenzene	115		10	08		109		70	-130	%	11.22.2020 07:03	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3143103 678616-015	B		Matrix: nple Id:	Soil 678616-01	15 S			rep Metho Date Pro D Sample	ep: 11.2	5035A 21.2020 616-015 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	0.0917	92	0.0822	82	70-130	11	35	mg/kg	11.21.2020 19:36	
Toluene	< 0.00200	0.100	0.0860	86	0.0721	72	70-130	18	35	mg/kg	11.21.2020 19:36	
Ethylbenzene	< 0.00200	0.100	0.0861	86	0.0792	79	71-129	8	35	mg/kg	11.21.2020 19:36	
m,p-Xylenes	< 0.00400	0.200	0.176	88	0.139	70	70-135	23	35	mg/kg	11.21.2020 19:36	
o-Xylene	< 0.00200	0.100	0.0864	86	0.0709	71	71-133	20	35	mg/kg	11.21.2020 19:36	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			9	5		100		70	-130	%	11.21.2020 19:36	
4-Bromofluorobenzene			10	02		111		70	-130	%	11.21.2020 19:36	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Meth	od: SW	5035A	
Seq Number:	3142998		]	Matrix:	Soil				Date Pr	rep: 11.2	21.2020	
Parent Sample Id:	678647-004		MS San	nple Id:	678647-00	04 S		MS	D Sampl	e Id: 678	647-004 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	0.0841	84	0.0828	83	70-130	2	35	mg/kg	11.22.2020 07:48	
Toluene	< 0.00200	0.100	0.0786	79	0.0768	77	70-130	2	35	mg/kg	11.22.2020 07:48	
Ethylbenzene	< 0.00200	0.100	0.0813	81	0.0766	77	71-129	6	35	mg/kg	11.22.2020 07:48	
m,p-Xylenes	< 0.00401	0.200	0.163	82	0.159	79	70-135	2	35	mg/kg	11.22.2020 07:48	
o-Xylene	< 0.00200	0.100	0.0823	82	0.0809	81	71-133	2	35	mg/kg	11.22.2020 07:48	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			9	96		97		70	-130	%	11.22.2020 07:48	
4-Bromofluorobenzene			1	06		104		70	-130	%	11.22.2020 07:48	

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

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

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

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Project Manager:

Lynda Laumbach

Page 50 of 147

# Chain of Custody

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

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			1-	Relinquished by (Sior	Ire of this docume	Method(s) and	200.7 / 6010						1 40	NA A	00	0] A	SOI	Sample Identification	tainers:	Sample Custody Seals:	Cooler Custody Seals:	Intact:	SAMPLE RECEIPT		s Name:					e ZIP-	y indilie.	
		9		A minimum charge of \$85.00 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.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cliont company to Yonce to create the tracter of the Min. Mo. Ni. Se. Ag. TI. U	analyzed	200.8/6020: 0		al-on-11	SH-00-10	S 11-20-70	5 11-20-20	S 11-20-20	2 11-10-10	S 11.00.20	S 11-10-70	2	Matrix	X Corrected	Yes (No) N/A Temperatu	Yes No N/A Correction Factor:	-	Temp Blank: Yes No	I CIVI I A WINN	NN NN	~	WOTH Prushy Uraw 55-0	1041	15751795 1647	Carlebad NM seaso	5315 Biono Victo D	
			Received by: (Signature)	assume any responsibility for any lo d a charge of \$5 for each sample sub	itutes a valid purchase order from cli	TCLP / SPLP 6010: 8RCRA			9 11 OH-11	0.5.	11.10 1. G	10.50 0.51 6	10:40 1 6	0.51		0.5	Comp	-		ding: រា		THIN	Wet Ice: Yes No	TAT starts the day received by the lab, if received by 4:30pm	Due Date:	Koutine Rush	H Turn /		City, State ZIP	Address:	Company Name	Bill to: (if different)
	0	20.20 4.35 2	Date/Time	sees or expenses incurred by the mitted to Xenco, but not analyze		Al Sb As Ba Be B			-XXX	- XXX	- ×××		- X X X	1 X X X	- XXX	1 X X X	CI	# hlori FEX (	Me	(EP tho	PA 3	00. 021				Code		Email: Lynda.Laumbach@wpxenergy.com	Carlsbad, NM 88220	5315 Buena Vista Dr		t) Lynda Laumbach
			Relinquished by: (Signature)	ates and subcontractors. It as: the client if such losses are due ed. These terms will be enforce	Cr Co Cu Pb Mn Mo	Ca Cr Co						*			-		TPI	н (т)	<- E>	kter	nde	d 1(	005)				ANALYSI		220	1 Dr	mian, LLC.	
			nature)	signs standard terms e to circumstances be ed unless previously r	Mn Mo Ni Se Ag TI U	Pb Mg Mn Mo								000	r												ANALYSIS REQUEST	Deliverables: EDD	Reporting	State of Project:	Program	
			Received by: (Signature)	and conditions yond the control regotiated.		Ni K Se Ag SiO <sub>2</sub> Na																							Level III		Program: UST/PST DRP Trow	Work Order
Revised Data 0501					Hg: 1631 / 245.1 / 7470	Sr TI Sn U V										(	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na2S2O3: NaSO3	NaHSO4: NABIS	H <sub>3</sub> PO <sub>4</sub> : HP		HCL: HC H		COLVER D	Preservative Codes	Other:	ST/UST RRP		DRP Frownfields DC d	Commonto
2020 Bay 2020 4			Date/Time		70 / 7471	Zn											Iments	id: SAPC	Zn				NaOH: Na	MeOH: Me HNO3: HN	DI Water: H <sub>2</sub> O	C OCUCO	Codes			d Demand	hosting	

Revised Date 05012020 Rev. 2020.1

## **Eurofins Xenco, LLC**

#### Prelogin/Nonconformance Report- Sample Log-In

Client: WPX Energy Permian Basin, LLC	Acceptable Temperature Ra	ange: 0 - 6 degC
Date/ Time Received: 11.20.2020 02.35.00 PM	Air and Metal samples Acce	eptable Range: Ambient
Work Order #: 678647	Temperature Measuring dev	vice used: T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	5	
#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:

Date: 11.20.2020

Checklist reviewed by: Jessica Kramer

Date: 11.23.2020

eurofins Environment Testing

Project Id:

**Project Location:** 

**Contact:** 

Xenco

034820029

Eddy County

Joseph Hernandez

Certificate of Analysis Summary 669618

LT Environmental, Inc., Arvada, CO

#### Project Name: North Brushy Draw 35-4

 Date Received in Lab:
 Mon 08.10.2020 11:37

 Report Date:
 08.14.2020 20:45

Project Manager: Jessica Kramer

	Lab Id:	669618-0	001	669618-0	02	669618-0	003	669618-0	004	669618-0	005	669618-006	
Analysis Requested	Field Id:	BH01	l	BH01.	4	BH02		BH02A		BH03		BH03A	
Analysis Requested	Depth:	0.1-0.3	ft	0.3-0.5	ft	0.2-0.5	ft	2-2.5 1	ft	0.2-0.5	ft	0.5-1 ft	t
	Matrix:	SOIL		SOIL		SOIL	,	SOIL		SOIL		SOIL	
	Sampled:	08.07.2020	8.07.2020 08:50 08		08.07.2020 08:55		08.07.2020 09:20		08.07.2020 11:10		08.07.2020 09:40		09:50
BTEX by EPA 8021B	Extracted:	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19
	Analyzed:	08.12.2020	16:33	08.12.2020	17:55	08.12.2020	18:15	08.12.2020	16:54	08.12.2020	17:14	08.12.2020	17:35
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00500	0.00500	< 0.00250	0.00250	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00500	0.00500	< 0.00250	0.00250	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.0200	0.0200	0.0981	0.0100	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
m,p-Xylenes		< 0.00401	0.00401	< 0.0400	0.0400	0.0426	0.0200	< 0.00399	0.00399	< 0.00404	0.00404	< 0.00401	0.00401
o-Xylene		< 0.00200	0.00200	< 0.0200	0.0200	0.236	0.0100	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.0200	0.0200	0.279	0.0100	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	< 0.00500	0.00500	0.377	0.00250	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Inorganic Anions by EPA 300	Extracted:	08.12.2020	12:34	08.12.2020	12:34	08.12.2020	12:34	08.12.2020	12:34	08.12.2020	12:34	08.12.2020	12:34
	Analyzed:	08.12.2020	14:37	08.12.2020	14:54	08.12.2020	15:00	08.12.2020	15:05	08.12.2020	15:11	08.12.2020	15:28
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		116	9.98	33.6	9.96	5400	49.6	5630	49.6	43.4	9.98	54.6	10.0
TPH by SW8015 Mod	Extracted:	08.11.2020	17:20	08.11.2020	17:20	08.11.2020	17:20	08.10.2020	15:15	08.10.2020	15:15	08.10.2020	15:15
	Analyzed:	08.12.2020	03:59	08.12.2020	04:20	08.12.2020	04:40	08.10.2020	22:14	08.10.2020	22:34	08.10.2020	22:54
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<250	250	<249	249	<251	251	<49.8	49.8	<50.1	50.1	<50.2	50.2
Diesel Range Organics (DRO)		9780	250	9740	249	2900	251	81.6	49.8	<50.1	50.1	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		1080	250	938	249	399	251	<49.8	49.8	<50.1	50.1	<50.2	50.2
Total TPH		10900	250	10700	249	3300	251	81.6	49.8	<50.1	50.1	<50.2	50.2

BRL - Below Reporting Limit

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

Jession Vramer

Page 1 of 23

eurofins Environment Testing Xenco

# **Analytical Report 669618**

for

## LT Environmental, Inc.

**Project Manager: Joseph Hernandez** 

North Brushy Draw 35-4

034820029

08.14.2020

Collected By: Anna Byers

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

08.14.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 669618 North Brushy Draw 35-4 Project Address: Eddy County

#### Joseph Hernandez:

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) 669618. 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. 669618 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,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

eurofins Environment Testing Xenco

#### Sample Cross Reference 669618

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	08.07.2020 08:50	0.1 - 0.3 ft	669618-001
BH01A	S	08.07.2020 08:55	0.3 - 0.5 ft	669618-002
BH02	S	08.07.2020 09:20	0.2 - 0.5 ft	669618-003
BH02A	S	08.07.2020 11:10	2 - 2.5 ft	669618-004
BH03	S	08.07.2020 09:40	0.2 - 0.5 ft	669618-005
BH03A	S	08.07.2020 09:50	0.5 - 1 ft	669618-006

eurofins Environment Testing Xenco

#### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029

 Work Order Number(s):
 669618

 Report Date:
 08.14.2020

 Date Received:
 08.10.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3134273 TPH by SW8015 Mod Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 669618-002.

#### Xenco

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: <b>BH01</b> Lab Sample Id: 669618-001		Matrix: Date Co	Soil ollected: 08.0	7.2020 08:50		Date Received:08.1 Sample Depth: 0.1		37
Analytical Method: Inorganic Anic Tech: CAC Analyst: MAB	ons by EPA 300		09.1	2 2020 12:24		Prep Method: E30 % Moisture: Basis: Wet		
Analyst: MAB Seq Number: 3134397		Date Pr	ep: 08.1.	2.2020 12:34		Basis: wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	116	9.98		mg/kg	08.12.2020 14:37		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3134273	15 Mod	Date Pr	ep: 08.1	1.2020 17:20		Prep Method: SW3 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250		mg/kg	08.12.2020 03:59	U	5
Diesel Range Organics (DRO)	C10C28DRO	9780	250		mg/kg	08.12.2020 03:59		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1080	250		mg/kg	08.12.2020 03:59		5
Total TPH	PHC635	10900	250		mg/kg	08.12.2020 03:59		
								5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	5

107

%

70-135

08.12.2020 03:59

84-15-1

o-Terphenyl

# **Certificate of Analytical Results 669618**

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

I I	<b>BH01</b> d: 669618-001	Matrix: Date Collected	Soil d: 08.07.2020 08:50	Date Received Sample Depth	1:08.10.2020 11:37 1: 0.1 - 0.3 ft
Analytical Mo Tech:	ethod: BTEX by EPA 8021B CAC			Prep Method: % Moisture:	SW5035A
Analyst: Seq Number:	MAB 3134380	Date Prep:	08.12.2020 12:19	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.12.2020 16:33	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.12.2020 16:33	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.12.2020 16:33	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.12.2020 16:33	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.12.2020 16:33	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.12.2020 16:33	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.12.2020 16:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	93	%	70-130	08.12.2020 16:33		
4-Bromofluorobenzene		460-00-4	95	%	70-130	08.12.2020 16:33		

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# **Certificate of Analytical Results 669618**

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH01A		Matrix:	Soil		Date Received:08.	10.2020 11:	:37
Lab Sample Id: 669618-002		Date Colle	ected: 08.07.2020 08:55		Sample Depth: 0.3	- 0.5 ft	
Analytical Method: Inorganic Anic	ons by EPA 300				Prep Method: E30	00P	
Tech: CAC					% Moisture:		
Analyst: MAB		Date Prep	: 08.12.2020 12:34		Basis: We	et Weight	
Seq Number: 3134397		Ĩ					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.6	9.96	mg/kg	08.12.2020 14:54		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW	/8015P	
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3134273	15 Mod	Date Prep	: 08.11.2020 17:20		% Moisture:	78015P et Weight	
Tech: DTH Analyst: DTH Seq Number: 3134273	15 Mod Cas Number	Date Prep Result	: 08.11.2020 17:20 RL	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3134273 Parameter				Units mg/kg	% Moisture: Basis: We	et Weight	Dil 5
Tech: DTH Analyst: DTH Seq Number: 3134273 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL		<ul> <li>Moisture:</li> <li>Basis: We</li> <li>Analysis Date</li> </ul>	et Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3134273 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	<b>Result</b> <249	<b>RL</b> 249	mg/kg	% Moisture: Basis: We Analysis Date 08.12.2020 04:20	et Weight Flag	5
Tech: DTH Analyst: DTH	Cas Number PHC610 C10C28DRO	Result <249 9740	<b>RL</b> 249 249	mg/kg mg/kg	% Moisture: Basis: We Analysis Date 08.12.2020 04:20 08.12.2020 04:20	et Weight Flag	5 5

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138

%

%

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

70-135

70-135

08.12.2020 04:20

08.12.2020 04:20

\*\*

# **Certificate of Analytical Results 669618**

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:BH01ALab Sample Id:669618-002	Matrix: Soil Date Collected: 08.07.2020 08:55	Date Received:08.10.2020 11:37 Sample Depth: 0.3 - 0.5 ft
Analytical Method: BTEX by EPA 8021B Tech: CAC		Prep Method: SW5035A % Moisture:
Analyst: MAB Seq Number: 3134380	Date Prep: 08.12.2020 12:19	Basis: Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00500	0.00500		mg/kg	08.12.2020 17:55	U	1
Toluene	108-88-3	< 0.00500	0.00500		mg/kg	08.12.2020 17:55	U	1
Ethylbenzene	100-41-4	< 0.0200	0.0200		mg/kg	08.12.2020 17:55	U	1
m,p-Xylenes	179601-23-1	< 0.0400	0.0400		mg/kg	08.12.2020 17:55	U	1
o-Xylene	95-47-6	< 0.0200	0.0200		mg/kg	08.12.2020 17:55	U	1
Total Xylenes	1330-20-7	< 0.0200	0.0200		mg/kg	08.12.2020 17:55	U	1
Total BTEX		< 0.00500	0.00500		mg/kg	08.12.2020 17:55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	08.12.2020 17:55		
1,4-Difluorobenzene		540-36-3	97	%	70-130	08.12.2020 17:55		

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# **Certificate of Analytical Results 669618**

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:BH02Lab Sample Id:669618-003		Matrix: Date Co	Soil ollected: 08.07	2.2020 09:20		Date Received:08.10 Sample Depth: 0.2 -		37
Analytical Method: Inorganic Anic Tech: CAC	ons by EPA 300					Prep Method: E300 % Moisture:	)P	
Analyst: MAB Seq Number: 3134397		Date Pr	ep: 08.12	2.2020 12:34		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5400	49.6		mg/kg	08.12.2020 15:00		5
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3134273	15 Mod	Date Pr	ep: 08.11	.2020 17:20		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pr <b>Result</b>	ep: 08.11 <b>RL</b>	.2020 17:20	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3134273			- F -	.2020 17:20	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b> 5
Tech: DTH Analyst: DTH Seq Number: 3134273 Parameter	Cas Number	Result	RL	.2020 17:20		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3134273 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <251	RL 251	.2020 17:20	mg/kg	% Moisture: Basis: Wet Analysis Date 08.12.2020 04:40	Weight Flag	5
Tech: DTH Analyst: DTH Seq Number: 3134273 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <251 2900	RL 251 251	.2020 17:20	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.12.2020 04:40 08.12.2020 04:40	Weight Flag	5 5
Tech: DTH Analyst: DTH Seq Number: 3134273 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <251 2900 399 3300	<b>RL</b> 251 251 251	.2020 17:20 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 08.12.2020 04:40 08.12.2020 04:40 08.12.2020 04:40 08.12.2020 04:40	Weight Flag	5 5 5

113

%

70-135

08.12.2020 04:40

84-15-1

o-Terphenyl

# **Certificate of Analytical Results 669618**

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:BH02Lab Sample Id:669618-003	Matrix: Date Collecte	Soil ed: 08.07.2020 09:20	Date Received Sample Depth	d:08.10.2020 11:37 n: 0.2 - 0.5 ft
Analytical Method: BTEX by EPA 8021B Tech: CAC			Prep Method: % Moisture:	SW5035A
Analyst: MAB Seq Number: 3134380	Date Prep:	08.12.2020 12:19	Basis:	Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00250	0.00250		mg/kg	08.12.2020 18:15	U	1
Toluene	108-88-3	< 0.00250	0.00250		mg/kg	08.12.2020 18:15	U	1
Ethylbenzene	100-41-4	0.0981	0.0100		mg/kg	08.12.2020 18:15		1
m,p-Xylenes	179601-23-1	0.0426	0.0200		mg/kg	08.12.2020 18:15		1
o-Xylene	95-47-6	0.236	0.0100		mg/kg	08.12.2020 18:15		1
Total Xylenes	1330-20-7	0.279	0.0100		mg/kg	08.12.2020 18:15		1
Total BTEX		0.377	0.00250		mg/kg	08.12.2020 18:15		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	08.12.2020 18:15		
1,4-Difluorobenzene		540-36-3	94	%	70-130	08.12.2020 18:15		

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#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH02A		Matrix:	Soil		Date Received:08.1	0.2020 11	:37
Lab Sample Id: 669618-004		Date Colle	cted: 08.07.2020 11:10		Sample Depth: 2 - 2	2.5 ft	
Analytical Method: Inorganic Anio	ons by EPA 300				Prep Method: E30	0P	
Tech: CAC					% Moisture:		
Analyst: MAB		Date Prep:	08.12.2020 12:34		Basis: Wet	Weight	
Seq Number: 3134397		p.				U	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5630	49.6	mg/kg	08.12.2020 15:05		5
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3134122	15 Mod	Date Prep:	08.10.2020 15:15		% Moisture:	8015P t Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	-	08.10.2020 15:15 <b>RL</b>	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3134122		-		Units mg/kg	% Moisture: Basis: Wet	t Weight	<b>Dil</b> 1
Tech: DTH Analyst: DTH Seq Number: 3134122 Parameter	Cas Number	Result	RL		% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3134122 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> <49.8	<b>RL</b> 49.8	mg/kg	% Moisture: Basis: Wet Analysis Date 08.10.2020 22:14	t Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3134122 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.8 81.6	<b>RL</b> 49.8 49.8	mg/kg mg/kg	Moisture:           Basis:         Wet           Analysis Date           08.10.2020 22:14           08.10.2020 22:14	t Weight Flag U	1

98

99

%

%

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

70-135

70-135

08.10.2020 22:14

08.10.2020 22:14

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#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: Lab Sample I	<b>BH02A</b> d: 669618-004	Matrix: Date Collected	Soil d: 08.07.2020 11:10	Date Received Sample Depth	1:08.10.2020 11:37 :: 2 - 2.5 ft
Analytical Me Tech:	ethod: BTEX by EPA 8021B CAC			Prep Method: % Moisture:	SW5035A
Analyst: Seq Number:	MAB 3134380	Date Prep:	08.12.2020 12:19	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.12.2020 16:54	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	96	%	70-130	08.12.2020 16:54		
4-Bromofluorobenzene		460-00-4	108	%	70-130	08.12.2020 16:54		

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#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: Lab Sample Id	<b>BH03</b> 1: 669618-005		Matrix: Date Collect	Soil eed: 08.07.2020 09:40		Date Received Sample Depth	:08.10.2020 11 : 0.2 - 0.5 ft	:37
Analytical Me Tech: Analyst: Seq Number:	ethod: Inorganic Anions CAC MAB 3134397	s by EPA 300	Date Prep:	08.12.2020 12:34		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result F	RL	Units	Analysis Da	ite Flag	Dil
Chloride		16887-00-6	43.4	9.98	mg/kg	08.12.2020 15	:11	1
Analytical Me Tech: Analyst: Seq Number:	ethod: TPH by SW8015 DTH DTH 3134122	Mod	Date Prep:	08.10.2020 15:15		Prep Method: % Moisture: Basis:	SW8015P Wet Weight	

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	08.10.2020 22:34		
o-Terphenyl		84-15-1	101	%	70-135	08.10.2020 22:34		

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# **Certificate of Analytical Results 669618**

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH03 Lab Sample Id: 669618-005	Matrix: Soil Date Collected: 08.07.2020 09:40	Date Received:08.10.2020 11:37 Sample Depth: 0.2 - 0.5 ft
Analytical Method: BTEX by EPA 8021B Tech: CAC		Prep Method: SW5035A % Moisture:
Analyst:MABSeq Number:3134380	Date Prep: 08.12.2020 12:19	Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	08.12.2020 17:14	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	08.12.2020 17:14		
1,4-Difluorobenzene		540-36-3	101	%	70-130	08.12.2020 17:14		

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# **Certificate of Analytical Results 669618**

#### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: Lab Sample Id	<b>BH03A</b> d: 669618-006		Matrix: Date Collect	Soil ed: 08.07.2020 09:50		Date Received: Sample Depth:		:37
Analytical Me Tech: Analyst: Seq Number:	ethod: Inorganic Anions CAC MAB 3134397	by EPA 300	Date Prep:	08.12.2020 12:34		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result R	Ľ	Units	Analysis Da	te Flag	Dil
Chloride		16887-00-6	54.6	10.0	mg/kg	08.12.2020 15	:28	1
Analytical Me Tech: Analyst: Seq Number:	ethod: TPH by SW8015 DTH DTH 3134122	Mod	Date Prep:	08.10.2020 15:15		Prep Method: % Moisture: Basis:	SW8015P Wet Weight	

Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
PHC610	<50.2	50.2		mg/kg	08.10.2020 22:54	U	1
C10C28DRO	<50.2	50.2		mg/kg	08.10.2020 22:54	U	1
PHCG2835	<50.2	50.2		mg/kg	08.10.2020 22:54	U	1
PHC635	<50.2	50.2		mg/kg	08.10.2020 22:54	U	1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	97	%	70-135	08.10.2020 22:54		
	84-15-1	102	%	70-135	08.10.2020 22:54		
	PHC610 C10C28DRO PHCG2835	PHC610         <50.2	PHC610         <50.2         50.2           C10C28DRO         <50.2	PHC610         <50.2         50.2           C10C28DRO         <50.2	PHC610         <50.2         50.2         mg/kg           C10C28DRO         <50.2	PHC610         <50.2         50.2         mg/kg         08.10.2020 22:54           C10C28DRO         <50.2	PHC610         <50.2         50.2         mg/kg         08.10.2020 22:54         U           C10C28DRO         <50.2

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# **Certificate of Analytical Results 669618**

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: Lab Sample Id:	BH03A 669618-006	Matrix: Date Collected	Soil : 08.07.2020 09:50	Date Received Sample Depth:	:08.10.2020 11:37 : 0.5 - 1 ft
Tech: (	nod: BTEX by EPA 8021B CAC MAB	Date Prep:	08.12.2020 12:19	Prep Method: % Moisture: Basis:	SW5035A Wet Weight
Seq Number:	3134380	L.			

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.12.2020 17:35	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	08.12.2020 17:35		
1,4-Difluorobenzene		540-36-3	105	%	70-130	08.12.2020 17:35		

#### Environment Testing Xenco

# **Flagging Criteria**

- 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								
<b>RL</b> Reporting Limit									
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection						
PQL Practical Quantitation Limit	<b>QL</b> Practical Quantitation Limit <b>MQL</b> Method Quantitation			n					
DL Method Detection Limit									
NC Non-Calculable	NC Non-Calculable								
SMP Client Sample		BLK	Method Blank						
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate					
MD/SD Method Duplicate/Samp	le 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** 669618

#### LT Environmental, Inc.

North Brushy Draw 35-4

					1,010	- 21 asirj -							
Analytical Method: Seq Number:	od: Inorganic Anions by EPA 300 3134397				Matrix:	Solid			Pi	rep Meth Date Pr		00P 12.2020	
MB Sample Id:	7709318-1	-BLK		LCS Sar	nple Id:	7709318-	1-BKS		LCS	D Sampl	e Id: 770	9318-1-BSD	
Parameter		MB Descult	Spike	LCS Result	LCS %Rec	LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<b>Result</b> <10.0	Amount 250	<b>Result</b> 267	% <b>кес</b> 107	Result 267	%Rec 107	90-110	0	20	mg/kg	08.12.2020 14:26	
								,	, i		88		
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic</b> 3134397 669618-00		y EPA 300		Matrix: nple Id:	Soil 669618-00	01 S			rep Meth Date Pr D Sampl	rep: 08.1	00P 12.2020 618-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		116	200	322	103		103	90-110	0	20	mg/kg	08.12.2020 14:43	
	Inorgonia											NOP	
Analytical Method: Seq Number:	3134397	Amons by	y EFA 300		Matrix:	Soil			r i	rep Meth Date Pr		12.2020	
Parent Sample Id:	669663-00	1		MS Sar	nple Id:	669663-0	01 S		MS	D Sampl	e Id: 669	663-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<9.98	200	205	103	205	103	90-110	0	20	mg/kg	08.12.2020 16:01	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SV</b> 3134122 7709153-1-		od		Matrix: nple Id:	Solid 7709153-	1-BKS			rep Meth Date Pr D Sampl	rep: 08.1	8015P 10.2020 9153-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Gasoline Range Hydrocarb	ons (GRO)	<b>Result</b> <50.0	Amount 1000	<b>Result</b> 1070	%Rec 107	Result 1050	%Rec 105	70-135	2	Limit 35	mg/kg	Date 08.10.2020 12:40	8
Diesel Range Organics		<50.0	1000	1180	118		105	70-135	3	35	mg/kg	08.10.2020 12:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		105 107			27 20		123 116			-135	% %	08.10.2020 12:40 08.10.2020 12:40	
o-Terphenyl		107		1	20		110	)	70	-135	%0	00.10.2020 12.40	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SV</b> 3134273 7709262-1		od		Matrix: nple Id:	Solid 7709262-	1-BKS			rep Meth Date Pr D Sampl	rep: 08.1	8015P 11.2020 9262-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Bornk	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1040	7 <b>6 Kec</b> 104	Result 1080	%Rec 108	70-135	4	35	mg/kg	08.11.2020 21:35	
Diesel Range Organics	(DRO)	<50.0	1000	1060	106	1100	110	70-135	4	35	mg/kg	08.11.2020 21:35	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCS %Re			imits	Units	Analysis Date	
1-Chlorooctane		110			34		129			-135	%	08.11.2020 21:35 08.11.2020 21:35	
o-Terphenyl		107		1	17		119	,	/0	-135	%	06.11.2020 21:35	
MS/MSD Percent Recover Relative Percent Differenc LCS/LCSD Recovery Log Difference	e R	D] = 100 * (0)	(C-E) / (C+E)		(Original 3	Sample)	A C	CS = Labora= Parent R= MS/LCS= MSD/LCS	esult S Result		$\mathbf{B} = \mathbf{S}_{\mathbf{I}}$	Matrix Spike pike Added SD/LCSD % Rec	

Log Difference Released to Imaging: 4/20/2021 1:32:12 PM

 $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$ 

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QC Summary 669618

#### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: TPH by SW8015 Mod			Prep Method:	SW8	3015P	
Seq Number: 3134122	Matrix:	Solid	Date Prep:	08.1	0.2020	
	MB Sample Id:	7709153-1-BLK				
Parameter	MB Result		τ	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0		n	ng/kg	08.10.2020 12:20	
Analytical Method:TPH by SW8015 ModSeq Number:3134273	Matrix: MB Sample Id:	Solid 7709262-1-BLK	Prep Method: Date Prep:		8015P 1.2020	
Parameter	MB Besult		τ	U <b>nits</b>	Analysis	Flag

Result

<50.0

Motor Oil Range Hydrocarbons (MRO)

Analytical Method: TPH by SW8015 Mod

Units Analysis Date mg/kg 08.11.2020 21:15

SW8015P

Prep Method:

Seq Number: 3134122 08.10.2020 Matrix: Soil Date Prep: MS Sample Id: 669620-001 S MSD Sample Id: 669620-001 SD Parent Sample Id: 669620-001 RPD Spike MS MS %RPD Units Analysis Parent MSD MSD Limits Flag Parameter Result Result %Rec Limit Date Amount Result %Rec 08.10.2020 15:49 Gasoline Range Hydrocarbons (GRO) <49.8 995 1020 103 1010 102 70-135 35 1 mg/kg Diesel Range Organics (DRO) <49.8 995 1110 112 1090 110 70-135 2 35 08.10.2020 15:49 mg/kg MS MS MSD Limits Units Analysis MSD Surrogate Flag Flag %Rec %Rec Date 08.10.2020 15:49 1-Chlorooctane 130 128 70-135 % o-Terphenyl 122 121 70-135 % 08.10.2020 15:49

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<ul> <li>TPH by SW8015 Mod 3134273</li> <li>669624-111</li> </ul>				Matrix: nple Id:	Soil 669624-11	1 S	Prep Method:         SW8015P           Date Prep:         08.11.2020           MSD Sample Id:         669624-111 SI					
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.2	1000	1310	131	1160	116	70-135	12	35	mg/kg	08.11.2020 22:35	
Diesel Range Organics	(DRO)	< 50.2	1000	1340	134	1160	116	70-135	14	35	mg/kg	08.11.2020 22:35	
Surrogate					IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane				9	95		132		70	-135	%	08.11.2020 22:35	
o-Terphenyl				1	09		126		70	-135	%	08.11.2020 22:35	

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

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

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Xenco

**Environment Testing** 

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#### QC Summary 669618

#### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method:	BTEX by EPA 8021	B		Prep Method: SW5035A								
Seq Number:	3134380		]	Matrix:	Solid			Date Prep: 08.12.2020				
MB Sample Id:	7709314-1-BLK		LCS San	nple Id:	7709314-1	I-BKS		LCS	D Sample	e Id: 770	9314-1-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	0.0980	98	0.0997	100	70-130	2	35	mg/kg	08.12.2020 14:37	
Toluene	< 0.00200	0.100	0.0936	94	0.0950	95	70-130	1	35	mg/kg	08.12.2020 14:37	
Ethylbenzene	< 0.00200	0.100	0.100	100	0.0990	99	71-129	1	35	mg/kg	08.12.2020 14:37	
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.202	101	70-135	0	35	mg/kg	08.12.2020 14:37	
o-Xylene	< 0.00200	0.100	0.101	101	0.0996	100	71-133	1	35	mg/kg	08.12.2020 14:37	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		9	5		100		70	-130	%	08.12.2020 14:37	
4-Bromofluorobenzene	106		9	8		97		70	-130	%	08.12.2020 14:37	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3134380 669618-001	lB		Prep Method:         SW5035A           Matrix:         Soil         Date Prep:         08.12.2020           Sample Id:         669618-001 S         MSD Sample Id:         669618-001 SD							12.2020	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.107	106	0.108	108	70-130	1	35	mg/kg	08.12.2020 15:17	
Toluene	< 0.00202	0.101	0.102	101	0.104	104	70-130	2	35	mg/kg	08.12.2020 15:17	
Ethylbenzene	< 0.00202	0.101	0.105	104	0.108	108	71-129	3	35	mg/kg	08.12.2020 15:17	
m,p-Xylenes	< 0.00403	0.202	0.213	105	0.218	109	70-135	2	35	mg/kg	08.12.2020 15:17	
o-Xylene	< 0.00202	0.101	0.105	104	0.108	108	71-133	3	35	mg/kg	08.12.2020 15:17	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	01		97		70	-130	%	08.12.2020 15:17	
4-Bromofluorobenzene			1	00		100		70	-130	%	08.12.2020 15:17	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-A}) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-E}) \ / \ (C\text{+E}) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

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

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

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		Notice: Signature of this document and relinquishment of samples constitutes of service. Xenco will be liable only for the cost of samples and shall not assu or Xenco. A minimum charge of \$75.00 will be applied to each project and a ci			A V V Ø950	5 Q.2-p.5'	0100 2-2.5'	dg1d d.1-6.5'	1 1 0 855 0.3-0.5'	A 8/4/20 0200 01-0.2'	Sample Identification Matrix Date Time Depth	Yes No N/A Correction Factor: V . 2	(Yes) NO TUMOD7	Yes No	PO #	ANNA BYERS	EDDY	Ø3482ØØ29 Routine	MORTH BRUSHY DRAW 35-4 Turn Argung	(432) 894-	MIDLAN	Address: 3300 NORTH A STREET Address:	LT ENV	Project Manager: JOSEPH HER VANDEZ Bill to: (if different)	Page 73 Houston,TX (281) 240-4200 LABORATORIES Midland,TX (432) 704-5440 EL Paso,TX Phoenix,AZ (480) 355-0900 Atlanta.GA (770
8/10/20 11:37 2	Date/Time Relinquished by: (Signature)	ampany to Xenco, its affiliates and subcontractors. It assigns standard te or expenses incurred by the client if such losses are due to circumstance d to Xenco, but not analyzed. These terms will be enforced unless previou	11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg A Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	8						-	TPH	er of Co (Ff EX (E nide	°A ≅eA	8ø1* 8ø	21	-	5)	Code	ANALYSIS REQUEST	P Henricon	ZIP: CARLSBAD, UM DEV20	5315 BUENA VIS	WPX ENERGY	HANDA LAUMAACH	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 Craslbad, NM (432) 704-5440 Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
	re) Received by: (Signature)	rms and conditions s beyond the control sly negotiated.	Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn Se Ag Ti U 1631/245.1/7470/7471:								Sample Comments	TAT starts the day received by the lab, if received by 4:00pm	Zn Acetate+ NaOH: Zn	NaOH: Na		H2S04: H2	None: NO	MeOH: Me	UEST Preservative Codes	Deliverables: EDDADar IOurei.			Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	WWW

### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	Range: 0 - 6 degC					
Date/ Time Received: 08.10.2020 11.37.00 AM	Air and Metal samples Acc	ceptable Range: Ambient					
Work Order #: 669618	Temperature Measuring device used : T-NM-007						
Sample Rec	eipt 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: Date: 08.10.2020

Checklist reviewed by: Jessica Vramer

Date: 08.11.2020

eurofins Environment Testing Xenco

Project Id:

**Project Location:** 

**Contact:** 

034820029

NM

Joseph Hernandez

### Certificate of Analysis Summary 676683

LT Environmental, Inc., Arvada, CO

Project Name: North Brushy Draw 35.4

 Date Received in Lab:
 Mon 11.02.2020 15:50

 Report Date:
 11.10.2020 09:09

Project Manager: Jessica Kramer

	Lab Id:	676683-001			
Analysis Requested	Field Id:	CH01 @ 4-4.5'			
Analysis Kequestea	Depth:	4-4.5 ft			
	Matrix:	SOIL			
	Sampled:	10.30.2020 10:52			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 17:52			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		<0.00401 0.00401			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Chloride by EPA 300	Extracted:	11.02.2020 16:33			
	Analyzed:	11.02.2020 20:44			
	Units/RL:	mg/kg RL			
Chloride		6190 50.0			
TPH by SW8015 Mod	Extracted:	11.02.2020 16:30			
	Analyzed:	11.03.2020 02:38			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<13.9 50.2			
Diesel Range Organics (DRO)		11.6 J 50.2			
Motor Oil Range Hydrocarbons (MRO)		<11.5 50.2			
Total TPH		11.6 J 50.2			

BRL - Below Reporting Limit

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

Jession Vramer

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# Analytical Report 676683

### for

### LT Environmental, Inc.

**Project Manager: Joseph Hernandez** 

North Brushy Draw 35.4

### 034820029

#### 11.10.2020

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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11.10.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676683 North Brushy Draw 35.4 Project Address: NM

#### Joseph Hernandez:

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) 676683. 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. 676683 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,

fession kenner

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 676683

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35.4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 @ 4-4.5'	S	10.30.2020 10:52	4 - 4.5 ft	676683-001

Environment Testing Xenco

### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35.4

 Project ID:
 034820029

 Work Order Number(s):
 676683

Report Date: *11.10.2020* Date Received: *11.02.2020* 

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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## **Certificate of Analytical Results 676683**

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35.4

I I	nple Id: <b>CH01 @ 4-4.5'</b> Sample Id: 676683-001 alytical Method: Chloride by EPA 300			Soil llected: 10.30	.2020 10:52		Date Received:11.02.2020 15:50 Sample Depth: 4 - 4.5 ft				
Analytical Method:	l: Chloride by EPA	300					Prep Method: E30	)0P			
Tech: MA	AB										
Analyst: MA	AB		Date Pro	ep: 11.02	.2020 16:33		% Moisture: Basis: We	t Weight			
Seq Number: 314	41207							t weight			
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride		16887-00-6	6190	50.0		mg/kg	11.02.2020 20:44		5		
Analytical Method:	l: TPH by SW8015	Mod					Prep Method: SW	78015P			
Analytical Method: Tech: MA Analyst: CA Seq Number: 314	AB AC	i Mod	Date Pro	ep: 11.02	.2020 16:30		% Moisture:	78015P t Weight			
Tech: MA Analyst: CA	AB AC	5 Mod Cas Number	Date Pro Result	ep: 11.02 RL	.2020 16:30	Units	% Moisture:		Dil		
Tech: MA Analyst: CA4 Seq Number: 314	AB .C 41201				.2020 16:30	Units mg/kg	% Moisture: Basis: We	t Weight	<b>Dil</b>		
Tech: MA Analyst: CA Seq Number: 314 Parameter	AB CC 41201 ocarbons (GRO)	Cas Number	Result	RL	.2020 16:30		% Moisture: Basis: We Analysis Date	t Weight Flag			
Tech: MA Analyst: CA4 Seq Number: 314 Parameter Gasoline Range Hydro	AB AC 41201 ocarbons (GRO) <b>ics (DRO)</b>	Cas Number PHC610	Result	<b>RL</b> 50.2	.2020 16:30	mg/kg	% Moisture: Basis: We Analysis Date 11.03.2020 02:38	t Weight Flag U	1		
Tech: MA Analyst: CA4 Seq Number: 314 Parameter Gasoline Range Hydro Diesel Range Organic	AB AC 41201 ocarbons (GRO) <b>ics (DRO)</b>	Cas Number PHC610 C10C28DRO	<b>Result</b> <13.9 11.6	RL 50.2 50.2	.2020 16:30	mg/kg mg/kg	% Moisture: Basis: We Analysis Date 11.03.2020 02:38 11.03.2020 02:38	t Weight Flag U J	1 1		
Tech: MA Analyst: CA Seq Number: 314 Parameter Gasoline Range Hydro Diesel Range Organio Motor Oil Range Hydroce	AB AC 41201 ocarbons (GRO) <b>ics (DRO)</b>	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <13.9 11.6 <11.5 11.6	RL 50.2 50.2 50.2	.2020 16:30 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 11.03.2020 02:38 11.03.2020 02:38 11.03.2020 02:38 11.03.2020 02:38	t Weight Flag U J U J J	1 1 1		
Tech: MA Analyst: CA Seq Number: 314 Parameter Gasoline Range Hydrod Diesel Range Organio Motor Oil Range Hydroda Total TPH	AB AC 41201 ocarbons (GRO) <b>ics (DRO)</b>	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <13.9 11.6 <11.5 11.6	RL 50.2 50.2 50.2 50.2 50.2		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 11.03.2020 02:38 11.03.2020 02:38 11.03.2020 02:38 11.03.2020 02:38	t Weight Flag U J U J Flag	1 1 1		

## **Certificate of Analytical Results 676683**

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35.4

Sample Id: Lab Sample I	<b>CH01 @ 4-4.5'</b> d: 676683-001	Matrix: Date Collected	Soil 1: 10.30.2020 10:52	Date Received:11.02.2020 15:50 Sample Depth: 4 - 4.5 ft				
5	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A			
Tech:	MAB			% Moisture:				
Analyst:	MAB	Date Prep:	11.03.2020 09:30	Basis:	Wet Weight			
Seq Number:	3141311				ther thought			

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	11.03.2020 17:52	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	11.03.2020 17:52		
1,4-Difluorobenzene		540-36-3	106	%	70-130	11.03.2020 17:52		

#### Environment Testing Xenco

# **Flagging Criteria**

- 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.
- ${f E}$  The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- ${f J}$  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 De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

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

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### QC Summary 676683

### LT Environmental, Inc.

North Brushy Draw 35.4

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by EPA</b> 3141207 7714384-1-BLK	300		Matrix: nple Id:	Solid 7714384-	1-BKS			rep Meth Date Pr D Sample	ep: 11.0	0P )2.2020 4384-1-BSD	
Parameter	MB	-	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride	<b>Resul</b> <10.0		Result 253	<b>%Rec</b> 101	Result 252	<b>%Rec</b> 101	90-110	0	Limit 20	mg/kg	Date 11.02.2020 18:55	
<b>Analytical Method:</b> Seq Number: Parent Sample Id: <b>Parameter</b> Chloride	Chloride by EPA 3141207 676514-005 Parent Result 3690	Spike Amount		Matrix: nple Id: <b>MS</b> %Rec 106	Soil 676514-00 MSD Result 3880	MSD %Rec	<b>Limits</b> 90-110		rep Meth Date Pr D Sample <b>RPD</b> Limit 20	ep: 11.0 e Id: 676 Units	0P )2.2020 514-005 SD <b>Analysis</b> <b>Date</b> 11.02.2020 19:11	Flag
Chionde	5090	) 199	3900	100	5880	75	90-110	1	20	mg/kg	1110212020 17111	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by EPA</b> 3141207 676679-001	300		Matrix: nple Id:	Soil 676679-00	01 S			rep Meth Date Pr D Sample	ep: 11.0	0P )2.2020 679-001 SD	
Parameter	Parent Result	-	MS Result	MS %Rec	MSD Barrok	MSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344		530	93	Result 542	<b>%Rec</b> 99	90-110	2	20	mg/kg	11.02.2020 20:28	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SW8015</b> 3141201 7714382-1-BLK	Mod		Matrix:	Solid 7714382-	1-BKS			rep Meth Date Pr D Sample	ep: 11.0	8015P )2.2020 4382-1-BSD	
Parameter	MB	-	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Gasoline Range Hydrocarb	ons (GRO) <13.9		Result 907	<b>%Rec</b> 91	Result 852	% <b>Rec</b> 85	70-135	6	Limit 35	mg/kg	Date 11.02.2020 18:36	
Diesel Range Organics			1040	104	1000	100	70-135	4	35	mg/kg	11.02.2020 18:36	
Surrogate	MB %Re			CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane	95			25		105			-135	%	11.02.2020 18:36	
o-Terphenyl	101		1	.03		101		70	-135	%	11.02.2020 18:36	
<b>Analytical Method:</b> Seq Number:	<b>TPH by SW8015</b> 3141201	Mod		Matrix: nple Id:	Solid 7714382-	1-BLK		P	rep Meth Date Pr		8015P )2.2020	
Parameter			MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)		<11.5							mg/kg	11.02.2020 18:16	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

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

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

.

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🔅 eurofins **Environment Testing** Xenco

#### **QC Summary** 676683

### LT Environmental, Inc.

North Brushy Draw 35.4

Analytical Method: Seq Number: Parent Sample Id:	Matrix: Soil MS Sample Id: 676514-007 S					Prep Method:         SW8015P           Date Prep:         11.02.2020           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 Hydrocarbon	ns (GRO)	<13.9	1000	837	84	838	84	70-135	0	35	mg/kg	11.02.2020 19:37	
Diesel Range Organics (D	DRO)	<11.5	1000	910	91	927	93	70-135	2	35	mg/kg	11.02.2020 19:37	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	29		133		70	-135	%	11.02.2020 19:37	
o-Terphenyl				1	18		123		70	-135	%	11.02.2020 19:37	

Analytical Method:	BTEX by EPA 8021	B						Pi	rep Metho	od: SW	5035A	
Seq Number:	3141311		]	Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	I-BKS		LCS	D Sample	e Id: 771	4461-1-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	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		9	9		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method:	BTEX by EPA 8021					P	rep Metho	od: SW	5035A					
Seq Number:	3141311		]	Matrix:	Soil				Date Prep: 11.03.2020					
Parent Sample Id:	676514-007	· · · · · · · · · · · · · · · · · · ·						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		
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41			
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41			
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41			
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41			
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41			
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date			
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41			
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41			

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

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$  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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σ	3	· Un by	Relinquished by: (Signature)	Notice: Signature of this document and relir of service. Xenco will be liable only for the of Xenco. A minimum charge of \$75.00 will	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed					/	CHOI@ 4-4.5	Sample Identification	Sample Custody Seals: Yes	Cooler Custody Seals: Yes	Received Intact:	Temperature (°C):	SAMPLE RECEIPT T	Sampler's Name: Anna Byers	P.O. Number: Liner	Project Number: 034820029	Project Name: North Brushy Draw 35-4	Phone: 281-702-2329	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: LT Environmental, Inc	Project Manager: Joseph Hernandez		LABORATORIES		
	C	( te	Received by: (Signature)	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.	8RCRA 13PPM TCLP / SPLP 60						1-12 25\$146/48/41 S	Matrix Date Time De	No N/A Total Containers:	No N/A Correction Factor:	NO THINOD	1-0 Thermometer ID	Temp Blank: Yes No Wet Ice: Yes	Due Date:	Rush:	Routine	y Draw 35-4 Turn Around			A Street Address:						
		102:51 00/2/11	, Date/Time	order from client company to Xenco, its aff ility for any losses or expenses incurred by h sample submitted to Xenco, but not analy	Texas 11 Al Sb As Ba Be B 10: 8RCRA Sb As Ba Be Cd						4-4.5' 1 X X X	Dept Numbo TPH (EI BTEX (I Chlorid	PA 8 EPA	015 802	Mod 1B)	i)	No			Ø,	ound	Email: ihernandez@ltenv.com & abyers@ltenv.com	City, State ZIP: Carlsbad, NM 88220		Company Name: WPX Energy	Bill to: (if different) Lynda Laumbach	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland TX (432-704-5440) EL Pasc TX (915)585-3443 Lubbock TX (806)794-1296	Chain of Custody	2
a	4 (	2	Relinquished by: (Signature)	filiates and subcontractors. It assigns star y the client if such losses are due to circur yzed. These terms will be enforced unless	Cd Ca Cr Co Cu Fe Pb Cr Co Cu Pb Mn Mo Ni		/														ANALYSIS REQUEST			9r			GA (770-449-8800) Tampa,FL (813-62)	00 San Antonio,TX (210) 509-3334 3443 Lubbock TX (806)794-1296	ustody	
			) Received by: (Signature)	ndard terms and conditions mstances beyond the control previously negoliated.	Mn Mo Ni K Se Ag SiO2 Ag TI U	/	/															Deliverables: EDD ADaPT	Reporting:Level II Devel III DT/UST	State of Project:	Program: UST/PST PRP rownfields	Work Order Comments	0-2000) www.xenco.com		Work Order No:	
Revised Date 051418 Rev. 2018.1			) Date/Time		Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg							Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes	Other:			sids FDc 1 perfund	omments	Page / of /		6	289963

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Final 1.001

### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acceptable Range: Ambient					
Work Order #: 676683	Temperature Measuring device used : TNM007					
Sample Receip	ot Checklist Comments					
#1 *Temperature of cooler(s)?	1					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes					
#4 *Custody Seals intact on shipping container/ cooler?	Yes					
#5 Custody Seals intact on sample bottles?	Yes					
#6*Custody Seals Signed and dated?	Yes					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	No					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	N/A					
#18 Water VOC samples have zero headspace?	N/A					

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

Analyst:

PH Device/Lot#:

Checklist completed by: Martha Castro

Date: 11.02.2020

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 11.03.2020

034820029

NM

Joseph Hernandez

eurofins Environment Testing

**Project Location:** 

Project Id:

**Contact:** 

Xenco

### Certificate of Analysis Summary 676708

LT Environmental, Inc., Arvada, CO

Project Name: North Brushy Draw 35-4

Date Received in Lab: Mon 11.02.2020 15:50 **Report Date:** 11.05.2020 08:16 Project Manager: Jessica Kramer

	Lab Id:	676708-001			
	Field Id:	CH01 6-6.5'			
Analysis Requested	Depth:	6-6.5 ft			
	Matrix:	SOIL			
	Sampled:	10.30.2020 11:10			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 18:14			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		<0.00401 0.00401			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00			
	Analyzed:	11.03.2020 15:37			
	Units/RL:	mg/kg RL			
Chloride		208 9.94			
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27			
	Analyzed:	11.03.2020 17:22			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2			
Diesel Range Organics (DRO)		<50.2 50.2			
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2			
Total TPH		<50.2 50.2			

BRL - Below Reporting Limit

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

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# **Analytical Report 676708**

### for

### LT Environmental, Inc.

**Project Manager: Joseph Hernandez** 

North Brushy Draw 35-4

### 034820029

#### 11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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

11.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676708 North Brushy Draw 35-4 Project Address: NM

#### Joseph Hernandez:

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) 676708. 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. 676708 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,

fession kenner

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 676708

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 6-6.5'	S	10.30.2020 11:10	6 - 6.5 ft	676708-001

Environment Testing Xenco

### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029

 Work Order Number(s):
 676708

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

#### Environment Testin Xenco

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:         CH01 6-6.5'           Lab Sample Id:         676708-001		Matrix: Soil Date Collected: 10.30.2020 11:10				Date Received:11.02.2020 15:50 Sample Depth: 6 - 6.5 ft					
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	0P				
Tech: MAB											
Analyst: MAB		Date Pre	ep: 11.03	.2020 13:00		% Moisture: Basis: Wet	Weight				
Seq Number: 3141306						Dasis. Wet	weight				
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil			
Chloride	16887-00-6	208	9.94		mg/kg	11.03.2020 15:37		1			
Analytical Method:TPH by SW80Tech:MABAnalyst:CACSeq Number:3141297	15 Mod	Date Pro	ep: 11.03	.2020 13:27		Prep Method: SW8 % Moisture: Basis: Wet	3015P Weight				
Tech: MAB Analyst: CAC	15 Mod Cas Number	Date Pro Result	ep: 11.03 RL	.2020 13:27	Units	% Moisture:		Dil			
Tech: MAB Analyst: CAC Seq Number: 3141297				.2020 13:27	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>			
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter	Cas Number	Result	RL	.2020 13:27		% Moisture: Basis: Wet Analysis Date	Weight Flag				
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.2	.2020 13:27	mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:22	Weight Flag U	1			
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.2 <50.2	RL 50.2 50.2	.2020 13:27	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:22 11.03.2020 17:22	Weight Flag U U	1			
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2	.2020 13:27 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:22 11.03.2020 17:22 11.03.2020 17:22 11.03.2020 17:22	Weight Flag U U U	1 1 1			
Tech:       MAB         Analyst:       CAC         Seq Number:       3141297         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)         Total TPH       Image Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2 50.2 50.2		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 17:22 11.03.2020 17:22 11.03.2020 17:22 11.03.2020 17:22 3.2020 17:22 3.2020 17:22	Weight Flag U U U U U Flag	1 1 1			

## **Certificate of Analytical Results 676708**

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: <b>CH01 6-6.5'</b>	Matrix:	Soil	Date Received:11.02.2020 15:50					
Lab Sample Id: 676708-001	Date Collecte	ed: 10.30.2020 11:10	Sample Depth: 6 - 6.5 ft					
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3141311	Date Prep:	11.03.2020 09:30	Prep Method: % Moisture: Basis:	SW5035A Wet Weight				

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 18:14	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 18:14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 18:14	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	11.03.2020 18:14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 18:14	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 18:14	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 18:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.03.2020 18:14		
4-Bromofluorobenzene		460-00-4	110	%	70-130	11.03.2020 18:14		

#### Environment Testing Xenco

# **Flagging Criteria**

- 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										
<b>RL</b> Reporting Limit											
MDL Method Detection Limit											
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n							
DL Method Detection Limit	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/Labo	ratory Control Sample Duplicate							
MD/SDMethod Duplicate/Sample DuplicateMSMatrix SpikeMSD: 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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### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Seq Number: MB Sample Id:	<b>Inorganic Anion</b> 3141306 7714455-1-BLK	s by EPA 300		Matrix: nple Id:	Solid 7714455-	1-BKS			rep Metho Date Pro D Sample	ep: 11.0	0P )3.2020 4455-1-BSD	
Parameter	M Rest	-	LCS Result	LCS %Rec	LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10		260	7 <b>6 Kec</b> 104	Result 259	<b>%Rec</b> 104	90-110	0	20	mg/kg	11.03.2020 15:10	
											0.0	
Analytical Method: Seq Number:	3141306	S DY EPA 300		Matrix:	Soil			P	rep Metho Date Pro		0P 03.2020	
Parent Sample Id:	676707-001				676707-0	01 S		MS		-	707-001 SD	
Parameter	Pare Resi	-	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6	06 200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method:	Inorganic Anion	s by EPA 300						P	rep Metho	od: E30	0P	
Seq Number:	3141306	·		Matrix:					Date Pro	ep: 11.0	3.2020	
Parent Sample Id:	676720-001		MS Sai	nple Id:	676720-0	01 S		MS	D Sample	e Id: 676	720-001 SD	
Parameter	Pare Resi	-	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		48 200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
Analytical Method: Seq Number:	<b>TPH by SW801</b> 3141297	5 Mod		Matrix:	Solid			P	rep Metho Date Pro		8015P )3.2020	
MB Sample Id:	7714426-1-BLK				7714426-	1-BKS		LCS		-	4426-1-BSD	
Parameter	M Resu	-	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb			1180	118	1130	113	70-135	4	35	mg/kg	11.03.2020 15:40	
Diesel Range Organics	(DRO) <50	0.0 1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate	M %I			CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane	12			30		126			-135	%	11.03.2020 15:40 11.03.2020 15:40	
o-Terphenyl	11	. /	1	20		118	)	70	-135	%	11.05.2020 15.40	
Analytical Method:	TPH by SW8015	5 Mod						P	rep Metho	od: SW	8015P	
Seq Number:	3141297			Matrix: nple Id:	Solid 7714426-	1-BLK			Date Pro	ep: 11.0	03.2020	
Parameter			MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)		<50.0							mg/kg	11.03.2020 15:20	

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

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

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

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#### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method:ISeq Number:IParent Sample Id:I	od	] MS San	Matrix: nple Id:		01 S			ep Methe Date Pr D Sample	ep: 11.0	8015P )3.2020 707-001 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	s (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics (D	ORO)	<50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
1-Chlorooctane				12	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3141311		]	Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	I-BKS		LCS	D Sample	e Id: 771	4461-1-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	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		9	9		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3141311 676514-007	1B	Matrix: Soil MS Sample Id: 676514-007 S					Prep Method:         SW5035A           Date Prep:         11.03.2020           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		
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41			
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41			
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41			
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41			
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41			
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date			
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41			
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41			

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

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

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Final 1.000

### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC							
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acc							
Work Order #: 676708	Temperature Measuring device used: T_NM_007							
Sample Recei	pt 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:

Date: 11.03.2020

Checklist reviewed by: Jessica WAMER Jessica Kramer

Date: 11.03.2020

034820029

NM

Joseph Hernandez

eurofins Environment Testing Xenco

**Project Id:** 

**Project Location:** 

**Contact:** 

### Certificate of Analysis Summary 676710

LT Environmental, Inc., Arvada, CO

Project Name: North Brushy Draw 35-4

 Date Received in Lab:
 Mon 11.02.2020 15:50

 Report Date:
 11.05.2020 08:16

 Project Manager:
 Jessica Kramer

Lab Id: 676710-001 Field Id: CH01 @ 8-8.5' Analysis Requested Depth: 8-8.5 ft Matrix: SOIL Sampled: 10.30.2020 11:35 BTEX by EPA 8021B 11.03.2020 09:30 Extracted: Analyzed: 11.03.2020 18:59 RL Units/RL: mg/kg < 0.00200 0.00200 Benzene 0.00200 Toluene < 0.00200 < 0.00200 0.00200 Ethylbenzene 0.00399 < 0.00399 m,p-Xylenes o-Xylene < 0.00200 0.00200 0.00200 < 0.00200 Total Xylenes Total BTEX < 0.00200 0.00200 **Inorganic Anions by EPA 300** Extracted: 11.03.2020 13:00 Analyzed: 11.03.2020 15:48 Units/RL: RL mg/kg Chloride 120 50.5 TPH by SW8015 Mod Extracted: 11.03.2020 13:27 Analyzed: 11.03.2020 18:02 Units/RL: mg/kg RL Gasoline Range Hydrocarbons (GRO) < 50.2 50.2 Diesel Range Organics (DRO) < 50.2 50.2 Motor Oil Range Hydrocarbons (MRO) < 50.2 50.2 Total TPH < 50.2 50.2

BRL - Below Reporting Limit

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

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# **Analytical Report 676710**

### for

### LT Environmental, Inc.

**Project Manager: Joseph Hernandez** 

North Brushy Draw 35-4

034820029

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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

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11.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676710 North Brushy Draw 35-4 Project Address: NM

#### Joseph Hernandez:

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) 676710. 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. 676710 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,

fession kenner

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 676710

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 @ 8-8.5'	S	10.30.2020 11:35	8 - 8.5 ft	676710-001

Environment Testing Xenco

### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029

 Work Order Number(s):
 676710

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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## **Certificate of Analytical Results 676710**

### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:         CH01 @ 8-8.5'           Lab Sample Id:         676710-001		Matrix: Date Co	Soil llected: 10.30	.2020 11:35		Date Received:11.02.2020 15:50 Sample Depth: 8 - 8.5 ft			
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P		
Tech: MAB									
Analyst: MAB		Date Pre	ep: 11.03	.2020 13:00		% Moisture: Basis: Wet	Waight		
Seq Number: 3141306						Dasis. Wet	Wet Weight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	120	50.5		mg/kg	11.03.2020 15:48		5	
Analytical Method: TPH by SW80	115 Mod					Prep Method: SW8	3015P		
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3141297	015 Mod	Date Pre	ep: 11.03.	.2020 13:27		Prep Method: SW8 % Moisture: Basis: Wet	3015P Weight		
Tech:MABAnalyst:CACSeq Number:3141297	015 Mod Cas Number	Date Pre Result	ep: 11.03. <b>RL</b>	.2020 13:27	Units	% Moisture:		Dil	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter			F.	.2020 13:27	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>	
Tech: MAB Analyst: CAC	Cas Number	Result	RL	.2020 13:27		% Moisture: Basis: Wet Analysis Date	Weight Flag		
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.2	RL 50.2	.2020 13:27	mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 18:02	Weight Flag U	1	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.2 <50.2	RL 50.2 50.2	.2020 13:27	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 18:02 11.03.2020 18:02	Weight Flag U U	1 1	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2	.2020 13:27 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 18:02 11.03.2020 18:02 11.03.2020 18:02 11.03.2020 18:02	Weight Flag U U U	1 1 1	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2 50.2 50.2		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 18:02 11.03.2020 18:02 11.03.2020 18:02 11.03.2020 18:02	Weight Flag U U U U U Flag	1 1 1	

## **Certificate of Analytical Results 676710**

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### LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:         CH01 @ 8-8.5'           Lab Sample Id:         676710-001		Matrix: Date Collected	Soil : 10.30.2020 11:35	Date Received:11.02.2020 15:50 Sample Depth: 8 - 8.5 ft			
2	od: BTEX by EPA 8021B			Prep Method:	SW5035A		
Tech: N	MAB			0/ Maintana			
Analyst: N	MAB	Date Prep:	11.03.2020 09:30	% Moisture: Basis:	Wet Weight		
Seq Number: 3	3141311			Du315.	wei weight		

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.03.2020 18:59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	11.03.2020 18:59		
4-Bromofluorobenzene		460-00-4	126	%	70-130	11.03.2020 18:59		

#### Environment Testing Xenco

# **Flagging Criteria**

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- 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.

<b>BRL</b> Below Reporting Limit.	ND Not Detected								
<b>RL</b> Reporting Limit									
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection						
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n					
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/Labo	ratory Control Sample Duplicate					
MD/SD Method Duplicate/Samp	le 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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### LT Environmental, Inc.

North Brushy Draw 35-4

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Inorganic Ani</b> 3141306 7714455-1-BLI		y EPA 300		Matrix: nple Id:	Solid 7714455-1	-BKS			rep Metho Date Pro D Sample	ep: 11.0	0P )3.2020 4455-1-BSD	
Parameter		MB	Spike	LCS Barrelt	LCS	LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		esult <10.0	Amount 250	Result 260	%Rec 104	Result 259	<b>%Rec</b> 104	90-110	0	20	mg/kg	11.03.2020 15:10	
			200	200	101		101	<i>y</i> 0 110	Ū	20			
Analytical Method:	Inorganic Anio 3141306	ons by	y EPA 300		Matrix:	Soil			Pı	rep Metho Date Pro		0P )3.2020	
Seq Number: Parent Sample Id:	676707-001					676707-00	)1 S		MS		-	707-001 SD	
Parameter	Pa	rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
Analytical Method: Seq Number:	Inorganic Anio 3141306	ons bj	y EPA 300		Matrix:	Soil			Pı	rep Metho Date Pro		0P )3.2020	
Parent Sample Id:	676720-001			MS Sar	nple Id:	676720-00	01 S		MS	D Sample	d: 676	720-001 SD	
Parameter		rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	I. I	148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
<b>Analytical Method:</b> Seq Number: MB Sample Id:				Matrix: Solid LCS Sample Id: 7714420						Date Pre			
Parameter													
		MB	Spike	LCS Bogult		LCSD		Limits	%RPD	RPD Limit	Units	Analysis	Flag
Gasoline Range Hydrocarb	Re	MB esult	Amount	Result	%Rec	LCSD Result 1130	%Rec	<b>Limits</b> 70-135	<b>%RPD</b>	Limit		<b>Analysis</b> <b>Date</b> 11.03.2020 15:40	Flag
Gasoline Range Hydrocarb Diesel Range Organics	ons (GRO) <	esult	-			Result					Units mg/kg mg/kg	Date	Flag
	Retorms (GRO) < (DRO) <	esult <50.0	<b>Amount</b> 1000	<b>Result</b> 1180 1250 L	<b>%Rec</b> 118	<b>Result</b> 1130	<b>%Rec</b> 113	70-135 70-135 <b>LCSI</b>	4 4 D Li	Limit 35	mg/kg	Date 11.03.2020 15:40	Flag
Diesel Range Organics Surrogate 1-Chlorooctane	Ra ons (GRO) < (DRO) <	esult <50.0 <50.0 MB %Rec 122	<b>Amount</b> 1000 1000 <b>MB</b>	Result 1180 1250 L %	%Rec 118 125 CS Rec 30	Result 1130 1200 LCS	%Rec 113 120 LCSI %Rec 126	70-135 70-135 ) LCSI c Flag	4 4 D Li g 70	Limit 35 35 imits -135	mg/kg mg/kg	Date 11.03.2020 15:40 11.03.2020 15:40 Analysis Date 11.03.2020 15:40	Flag
Diesel Range Organics Surrogate	Ra ons (GRO) < (DRO) <	esult <50.0 <50.0 MB %Rec	<b>Amount</b> 1000 1000 <b>MB</b>	Result 1180 1250 L %	%Rec 118 125 CS Rec	Result 1130 1200 LCS	%Rec 113 120 LCSI %Rec	70-135 70-135 ) LCSI c Flag	4 4 D Li g 70	Limit 35 35 imits	mg/kg mg/kg <b>Units</b>	Date 11.03.2020 15:40 11.03.2020 15:40 Analysis Date	Flag
Diesel Range Organics Surrogate 1-Chlorooctane	Ra ons (GRO) < (DRO) <	esult (50.0) (50.0) MB (%Rec 122 117	Amount 1000 1000 MB Flag	Result 1180 1250 L % 1 1	%Rec 118 125 CS Rec 30 20 Matrix:	Result 1130 1200	%Rec 113 120 LCSI %Rec 126 118	70-135 70-135 ) LCSI c Flag	4 4 5 70 70 70	Limit 35 35 imits -135	mg/kg mg/kg Units % %	Date 11.03.2020 15:40 11.03.2020 15:40 Analysis Date 11.03.2020 15:40	Flag
Diesel Range Organics Surrogate 1-Chlorooctane o-Terphenyl Analytical Method:	Ra ons (GRO) < (DRO) < Y TPH by SW80	esult (50.0) (50.0) MB (%Rec 122 117	Amount 1000 1000 MB Flag	Result 1180 1250 L % 1 1 1 MB San MB	%Rec 118 125 CS Rec 30 20 Matrix:	Result 1130 1200 LCS Flag	%Rec 113 120 LCSI %Rec 126 118	70-135 70-135 ) LCSI c Flag	4 4 5 70 70 70	Limit 35 35 imits -135 -135	mg/kg mg/kg Units % %	Date 11.03.2020 15:40 11.03.2020 15:40 Analysis Date 11.03.2020 15:40 11.03.2020 15:40 8015P 03.2020 Analysis	Flag Flag
Diesel Range Organics Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: Seq Number:	Ra ons (GRO) < (DRO) < 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	esult (50.0) (50.0) MB (%Rec 122 117	Amount 1000 1000 MB Flag	Result 1180 1250 L % 1 1 1 MB San	%Rec 118 125 CS Rec 30 20 Matrix:	Result 1130 1200 LCS Flag	%Rec 113 120 LCSI %Rec 126 118	70-135 70-135 ) LCSI c Flag	4 4 5 70 70 70	Limit 35 35 imits -135 -135	mg/kg mg/kg Units % % od: SW3	Date 11.03.2020 15:40 11.03.2020 15:40 Analysis Date 11.03.2020 15:40 11.03.2020 15:40 11.03.2020 15:40 8015P )3.2020	C

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

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

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

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Final 1.000
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#### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method:				Pi	ep Metho	od: SW	8015P						
Seq Number:	3141297			Matrix: Soil					Date Prep: 11.03.2020				
Parent Sample Id:	676707-001			MS Sample Id: 676707-001 S				MS	D Sample	Id: 676	707-001 SD		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics (	(DRO)	< 50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				12	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3141311			Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	1-BKS		LCS	D Sample	e Id: 771	4461-1-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	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		ç	9		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method:	BTEX by EPA 8021	lB					Prep Method: SW5035A					
Seq Number:	3141311		]	Matrix: Soil					Date Prep: 11.03.2020			
Parent Sample Id:	676514-007		MS Sample Id: 676514-007 S				MS	D Sample	e Id: 676	514-007 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

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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)         Date/Time         Relinquished by:         (Signature)         Received           A         No.         A	Cump)
d relinquishment of samples constitutes r the cost of samples and shall not assu ) will be applied to each project and a cb	Relinquished by: (Signature)
200.8 / 6020:         8RCRA         13PPM         Texas 11         ,           Metal(s) to be analyzed         TCLP / SPLP 6010:         8RCRA	Total         200.7 / 6010         200.8 / 6020:           Circle         Method(s)         and         Metal(s)         to be         analyzed           Notice:         Signature of this document and relinquishment of samples of service.         Xenco will be liable only for the cost of samples and short Xenco.         A minimum charge of \$75.00 will be applied to each project to the cost of service.
OO29     Routine       Byers     Due Date       Temp Blank:     Yes No     Wet Ice:       Ves No     NA     Thermometer ID       Yes No     N/A     Total Containers:       S'     S     Id/Splat       S'     S     Id/Splat       S'     Jid/Splat     II35       S     Id/Splat     II35	Project Number: 034820029 P.O. Number: Liner Sampler's Name: Anna Byers Sampler's Name: Anna Byers Temperature (°C): 1,7 Received Intact: Ves Sample Custody Seals: Yes Sample Custody Seals: Yes Sample Custody Seals: Souther State Sample Received Intact: Souther State Sample Custody Seals: Souther State Sample Custody
North Brushy Draw 35-4	Project Name: North Br
-2329	Phone: 281-702-2329
Midland, TX 79705	City, State ZIP: Midland,
rth A Street	Address: 3300 Nc
onmental, Inc.	Company Name: LT Envir
lernandez	Project Manager: Joseph
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)	
, z	

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## **Eurofins Xenco, LLC**

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 676710	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt 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:

Date: 11.03.2020

Checklist reviewed by: Jessica Kramer

Date: 11.03.2020

eurofins Environment Testing Xenco

034820029

NM

Joseph Hernandez

**Project Id:** 

**Project Location:** 

**Contact:** 

## Certificate of Analysis Summary 676716

LT Environmental, Inc., Arvada, CO

Project Name: North Brushy Draw 35-4

Date Received in Lab:Mon 11.02.2020 15:50Report Date:11.05.2020 08:37Project Manager:Jessica Kramer

Lab Id: 676716-001 Field Id: CH02 @ 2-2.5' Analysis Requested Depth: 2-2.5 ft Matrix: SOIL Sampled: 10.30.2020 12:38 BTEX by EPA 8021B 11.03.2020 09:30 Extracted: Analyzed: 11.03.2020 20:29 RL Units/RL: mg/kg < 0.00202 0.00202 Benzene 0.00202 Toluene < 0.00202 < 0.00202 0.00202 Ethylbenzene 0.00404 < 0.00404 m,p-Xylenes 0.00202 o-Xylene < 0.00202 < 0.00202 0.00202 Total Xylenes Total BTEX < 0.00202 0.00202 **Inorganic Anions by EPA 300** Extracted: 11.03.2020 13:00 Analyzed: 11.03.2020 16:21 Units/RL: RL mg/kg Chloride 64.3 9.92 TPH by SW8015 Mod Extracted: 11.03.2020 13:27 Analyzed: 11.03.2020 19:24 Units/RL: RL mg/kg Gasoline Range Hydrocarbons (GRO) <49.9 49.9 Diesel Range Organics (DRO) <49.9 49.9 Motor Oil Range Hydrocarbons (MRO) <49.9 49.9 Total TPH <49.9 49.9

BRL - Below Reporting Limit

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

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# **Analytical Report 676716**

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## for

## LT Environmental, Inc.

**Project Manager: Joseph Hernandez** 

North Brushy Draw 35-4

034820029

11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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

11.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676716 North Brushy Draw 35-4 Project Address: NM

### Joseph Hernandez:

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) 676716. 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. 676716 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,

fession kenner

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 676716

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 2-2.5'	S	10.30.2020 12:38	2 - 2.5 ft	676716-001

Environment Testing Xenco

## **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029

 Work Order Number(s):
 676716

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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## **Certificate of Analytical Results 676716**

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:         CH02 @ 2-2.5'           Lab Sample Id:         676716-001		Matrix: Date Col	Soil llected: 10.30	.2020 12:38		Date Received:11.0 Sample Depth: 2 - 2		50
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	0P	
Tech: MAB Analyst: MAB			11.02	2020 12 00		% Moisture:		
Analyst: MAB Seq Number: 3141306		Date Pre	ep: 11.03	.2020 13:00		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.3	9.92		mg/kg	11.03.2020 16:21		1
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3141297	15 Mod	Date Pre	p: 11.03	.2020 13:27		Prep Method: SW3 % Moisture: Basis: Wet	8015P Weight	
Tech: MAB Analyst: CAC	15 Mod Cas Number	Date Pre Result	p: 11.03 RL	.2020 13:27	Units	% Moisture:		Dil
Tech:MABAnalyst:CACSeq Number:3141297			L	.2020 13:27	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b> 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter	Cas Number	Result	RL	.2020 13:27		% Moisture: Basis: Wet Analysis Date	: Weight Flag	
Tech:MABAnalyst:CACSeq Number:3141297ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.2020 13:27	mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 19:24	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	RL 49.9 49.9	.2020 13:27	mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 11.03.2020 19:24 11.03.2020 19:24	Weight Flag U U	1
Tech:MABAnalyst:CACSeq Number:3141297ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9	.2020 13:27 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 19:24 11.03.2020 19:24 11.03.2020 19:24 11.03.2020 19:24	E Weight Flag U U U U	1 1 1
Tech:MABAnalyst:CACSeq Number:3141297ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 19:24 11.03.2020 19:24 11.03.2020 19:24 11.03.2020 19:24 3 Maalysis Date	E Weight Flag U U U U Flag	1 1 1

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## **Certificate of Analytical Results 676716**

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: Lab Sample I	<b>CH02</b> @ <b>2-2.5'</b> d: 676716-001	Matrix: Date Collected	Soil d: 10.30.2020 12:38	Date Received Sample Depth	l:11.02.2020 15:50 : 2 - 2.5 ft
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.03.2020 09:30	% Moisture: Basis:	Wet Weight
Seq Number:	3141311			Dasis.	wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	11.03.2020 20:29	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	11.03.2020 20:29		
4-Bromofluorobenzene		460-00-4	117	%	70-130	11.03.2020 20:29		

#### Environment Testing Xenco

# **Flagging Criteria**

- a fin our quality control review of the data a QC dentrency was observed and hagged 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 De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

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

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### QC Summary 676716

### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Seq Number: MB Sample Id: Parameter	<b>Inorganic A</b> 3141306 7714455-1-E	-	y EPA 300 Spike Amount		Matrix: nple Id: LCS %Rec	Solid 7714455-1 LCSD Result	-BKS LCSD %Rec	Limits		rep Metho Date Pro D Sample RPD Limit	ep: 11.0	0P 13.2020 4455-1-BSD Analysis Date	Flag
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic A</b> 3141306 676707-001	nions by	y EPA 300		Matrix: nple Id:	Soil 676707-00	01 S			ep Metho Date Pre D Sample	ep: 11.0	0P 3.2020 707-001 SD	
Parameter		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result 606	Amount 200	Result 796	%Rec 95	Result 806	%Rec 100	90-110	1	Limit 20	mg/kg	Date 11.03.2020 15:26	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic A</b> 3141306 676720-001	nions by	y EPA 300		Matrix: nple Id:	Soil 676720-00	01 S			ep Metho Date Pro D Sample	od: E30 ep: 11.0	0P 13.2020 720-001 SD	
-		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Ting
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SW</b> 3141297 7714426-1-E		od		Matrix: nple Id:	Solid 7714426-1	-BKS			ep Metho Date Pre D Sample	ep: 11.0	8015P 3.2020 4426-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1180	118	1130	7 <b>6 Kec</b> 113	70-135	4	35	mg/kg	11.03.2020 15:40	
Diesel Range Organics	(DRO)	<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		122		1	30		126		70	-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118		70	-135	%	11.03.2020 15:40	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3141297	8015 M	od		Matrix: nple Id:	Solid 7714426-1	-BLK		Pr	ep Metho Date Pro		8015P 3.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	Date 11.03.2020 15:20	
											6 6		

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

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

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

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### QC Summary 676716

### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method:	TPH by SW	78015 M	od						Pr	ep Metho	od: SW3	8015P	
Seq Number:	3141297			I	Matrix:	Soil				Date Pre	ep: 11.0	3.2020	
Parent Sample Id:	676707-001			MS San	nple Id:	676707-00	1 S		MS	D Sample	Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics (	DRO)	<50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate				M %1	IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				12	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	

Analytical Method:	BTEX by EPA 8021	B						Pi	rep Metho	od: SW	5035A	
Seq Number:	3141311		]	Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	I-BKS		LCS	D Sample	e Id: 771	4461-1-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	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		9	19		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Meth	od: SW	5035A	
Seq Number:	3141311		]	Matrix:	Soil				Date Pr	ep: 11.0	03.2020	
Parent Sample Id:	676514-007		MS San	nple Id:	676514-00	07 S		MS	D Sample	e Id: 676	514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	jnature)	Received by: (Signature)		
	negotiated.	zed. These terms will be enforced unless previously	itted to Xenco, but not analyz	e of \$5 for each sample subm	encir project and a charg	Cianotico	Relinquished by: /
	is 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 apply 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.	nt company to Xenco, its affil ses or expenses incurred by	any responsibility for any los	les and shall not assume	e of \$75.00 will be applied to	of service. Xenco will be lial of Xenco. A minimum charg
		Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	tutes a valid nurchase and a form all and the Cd Cr Co	alid purchase order from ali-	f samples constitutes a v	ument and relinquishment o	Notice: Signature of this doc
Sn U V Zn	Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI	Cr Co Cu	Al Sb As Ba Be B	BRCRA 13PPM Texas 11 AI Sb	~	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) a
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			X X X	8 2-2.5'	12/30/20 1238	0.1	11010-1-
Sample Comments	0		трн	d Debri	Sampled		C C CXHD
rab, it received by 4:30pm	ā		I (EP		Date	ification Matrix	Sample Identification
TAT starts the day received by the	TAT s		PA 80	-		s: Yes No N/A	Sample Custody Seals:
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			15	Wet ICe. Tes No	ON 601	12	Temperature /°C1.
				D	Van No	IPT Temp Blank	SAMPLE RECEIPT
				Due Date:		Anna Byers	Sampler's Name:
				Rush:		Liner	P.O. Number:
Salow Cinet Motes				Routine		034820029	Project Number:
Work Order Notes		ANALYSIS REDUEST		Turn Around	5-4	North Brushy Draw 35-4	Project Name:
Other:	Deliverables: EDD ADaPT		Email: [hernandez@ltenv.com & abyers@ltenv.com	Email: jhernandez@h			
	Reporting:Level II Level III LIST/UST		Calisbau, INIV 00220		_	281-702 2220	Phone:
	י ר ו ו	2	Carlebod NM 0000	City State 7IP		Midland, TX 79705	City, State ZIP:
FLC { perfund	LIRP Irownfields			Address:		3300 North A Street	Address:
	Work Urder Comm	2		Company Name:	nc.	LT Environmental, Inc	Company Name:
raye 1 Of 1			) Lynda Laumbach	Bill to: (if different)		Joseph Hernandez	Project Manager:
-		Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa FL (813-620-2000)	AZ (480-355-0900) Atlanta	1 (575-392-7550) Phoenix,	Hobbs,N		
	1.1	Midland, TX (432-704-5440) EL Paso TX (915)585-3443 1 inhore TX (210) 509-3334	Midland, TX (432-704-5440) EL Paso TX (315)585-3443 Lubbook TX (200)	Midland, TX (432-704-5)		BORATORIES	LA
017 and	Work Order No:	Justouy		Landan TV Martinan a			
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## **Eurofins Xenco, LLC**

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 676716	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	Yes	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	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:

Date: 11.03.2020

Checklist reviewed by: Jessica Kramer

Date: 11.03.2020

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Xenco

# Project Id:034820029Contact:Joseph Hernandez

Project Location: NM

Certificate of Analysis Summary 676718

LT Environmental, Inc., Arvada, CO

### Project Name: North Brushy Draw 35-4

Date Received in Lab:Mon 11.02.2020 16:50Report Date:11.05.2020 08:38Project Manager:Jessica Kramer

			1	1	1	
	Lab Id:	676718-001				
Analysis Requested	Field Id:	CH02 @ 4-4.5'				
Analysis Requested	Depth:	4-4.5 ft				
	Matrix:	SOIL				
	Sampled:	10.30.2020 13:00				
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30				
	Analyzed:	11.03.2020 20:51				
	Units/RL:	mg/kg RL				
Benzene		<0.00199 0.00199				
Toluene		<0.00199 0.00199				
Ethylbenzene		<0.00199 0.00199				
m,p-Xylenes		<0.00398 0.00398				
o-Xylene		<0.00199 0.00199				
Total Xylenes		<0.00199 0.00199				
Total BTEX		<0.00199 0.00199				
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00				
	Analyzed:	11.03.2020 16:26				
	Units/RL:	mg/kg RL				
Chloride		34.2 10.0				
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27				
	Analyzed:	11.03.2020 19:44				
	Units/RL:	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3				
Diesel Range Organics (DRO)		<50.3 50.3				
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3				
Total TPH		<50.3 50.3				

BRL - Below Reporting Limit

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

Jession Vramer

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# Analytical Report 676718

## for

## LT Environmental, Inc.

**Project Manager: Joseph Hernandez** 

North Brushy Draw 35-4

### 034820029

### 11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

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

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

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

11.05.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676718 North Brushy Draw 35-4 Project Address: NM

### Joseph Hernandez:

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) 676718. 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. 676718 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,

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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 676718

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 4-4.5'	S	10.30.2020 13:00	4 - 4.5 ft	676718-001

Environment Testing Xenco

## **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029

 Work Order Number(s):
 676718

 Report Date:
 11.05.2020

 Date Received:
 11.02.2020

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Xenco

## **Certificate of Analytical Results 676718**

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: <b>CH02 @ 4-4.5'</b> Lab Sample Id: 676718-001		Matrix: Date Colle	Soil ected: 10.30.2020 13:00		Date Received:11.02 Sample Depth: 4 - 4.		:50
Analytical Method: Inorganic Anio	ons by EPA 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep:	11.03.2020 13:00		% Moisture: Basis: Wet	<b>W</b> 7 * 1 /	
Seq Number: 3141306		Ĩ			Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.2	10.0	mg/kg	11.03.2020 16:26		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: MAB Analyst: CAC Seq Number: 3141297	15 Mod	Date Prep:	11.03.2020 13:27		% Moisture:	3015P Weight	
Tech: MAB Analyst: CAC	115 Mod Cas Number	Date Prep: Result	11.03.2020 13:27 RL	Units	% Moisture:		Dil
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter				Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	<b>Result</b> <50.3	<b>RL</b> 50.3	mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 19:44	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3141297	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.3 <50.3	<b>RL</b> 50.3 50.3	mg/kg mg/kg	% Moisture: Basis: Wet Mnalysis Date 11.03.2020 19:44 11.03.2020 19:44	Weight Flag U U	1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b>					

127

%

70-135

11.03.2020 19:44

84-15-1

o-Terphenyl

#### Environment Testi Xenco

## **Certificate of Analytical Results 676718**

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: Lab Sample I	<b>CH02 @ 4-4.5'</b> d: 676718-001	Matrix: Date Collected	Soil 1: 10.30.2020 13:00	Date Received Sample Depth	d:11.02.2020 16:50 1:4 - 4.5 ft
•	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/ <b>M</b> · /	
Analyst:	MAB	Date Prep:	11.03.2020 09:30	% Moisture: Basis:	Wet Weight
Seq Number:	3141311			Dusis.	wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	11.03.2020 20:51	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	11.03.2020 20:51	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	11.03.2020 20:51	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	11.03.2020 20:51	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	11.03.2020 20:51	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	11.03.2020 20:51	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	11.03.2020 20:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	11.03.2020 20:51		
1,4-Difluorobenzene		540-36-3	105	%	70-130	11.03.2020 20:51		

#### Environment Testing Xenco

# **Flagging Criteria**

- 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			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le 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 676718

### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Seq Number: MB Sample Id: Parameter	<b>Inorganic A</b> 3141306 7714455-1-E	-	y EPA 300 Spike Amount		Matrix: nple Id: LCS %Rec	Solid 7714455-1 LCSD Result	-BKS LCSD %Rec	Limits		rep Metho Date Pro D Sample RPD Limit	ep: 11.0	0P 13.2020 4455-1-BSD Analysis Date	Flag
Chloride		<10.0	250	260	104	259	104	90-110	0	20	mg/kg	11.03.2020 15:10	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic A</b> 3141306 676707-001	nions by	y EPA 300		Matrix: nple Id:	Soil 676707-00	01 S			ep Metho Date Pre D Sample	ep: 11.0	0P 3.2020 707-001 SD	
Parameter		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result 606	Amount 200	Result 796	%Rec 95	Result 806	%Rec 100	90-110	1	Limit 20	mg/kg	Date 11.03.2020 15:26	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic A</b> 3141306 676720-001	nions by	y EPA 300		Matrix: nple Id:	Soil 676720-00	01 S			ep Metho Date Pro D Sample	od: E30 ep: 11.0	0P 13.2020 720-001 SD	
-		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Ting
Chloride		148	200	361	107	363	108	90-110	1	20	mg/kg	11.03.2020 16:43	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SW</b> 3141297 7714426-1-E		od		Matrix: nple Id:	Solid 7714426-1	-BKS			ep Metho Date Pre D Sample	ep: 11.0	8015P 3.2020 4426-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1180	118	1130	7 <b>6 Kec</b> 113	70-135	4	35	mg/kg	11.03.2020 15:40	
Diesel Range Organics	(DRO)	<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		122		1	30		126		70	-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118		70	-135	%	11.03.2020 15:40	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3141297	8015 M	od		Matrix: nple Id:	Solid 7714426-1	-BLK		Pr	ep Metho Date Pro		8015P 3.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	Date 11.03.2020 15:20	
											6 6		

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

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

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

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eurofins Environment Testing Xenco

### QC Summary 676718

### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method:	TPH by SW	78015 M	od						Pr	ep Metho	d: SW3	8015P	
Seq Number:	3141297			1	Matrix:	Soil				Date Pre	ep: 11.0	3.2020	
Parent Sample Id:	676707-001			MS San	nple Id:	676707-00	01 S		MS	D Sample	Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics (	DRO)	<50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				12	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3141311		]	Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714461-1-BLK		LCS San	nple Id:	7714461-	I-BKS		LCS	D Sample	e Id: 771	4461-1-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	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56	
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56	
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56	
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		9	9		104		70	-130	%	11.03.2020 09:56	
4-Bromofluorobenzene	110		1	03		110		70	-130	%	11.03.2020 09:56	

Analytical Method:	BTEX by EPA 802	lB						P	rep Metho	od: SW	5035A	
Seq Number:	3141311		]	Matrix:	Soil				Date Pr	ep: 11.0	03.2020	
Parent Sample Id:	676514-007		MS San	nple Id:	676514-00	07 S		MS	D Sample	e Id: 676	514-007 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		101		70	-130	%	11.03.2020 10:41	
4-Bromofluorobenzene			1	07		117		70	-130	%	11.03.2020 10:41	

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

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

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

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	And A Contraction	1	e cost of samples Il be applied to ea	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA (	11				2Hp2 @ 4-4.5' S 10/30/13/00 4-4.5' 1	e Identification Matrix Sampled Sampled Depth	Sample Custody Seals: Yes (No) N/A Total Containers: 1 5	o N/A Correction Factor:0 -2	(Yes) NO THIMOOT	1-2 1.0 Thermometer ID	CEIPT Temp Blank: Ten No Wet Ico.	Sampler's Name: Anna Byers Due Date:	Project Number: 034820029 Routine	Project Name: North Brushy Draw 35-4 Turn Around	Phone: 281-702-2329 Email: hernandez@ltenv	ate ZIP: Midland, TX 79705	3300 North A Street	Company Name: LT Environmental, Inc. Company Name:	Project Manager: Joseph Hernandez Bill to: (if different)	Hodds,NM (575-392-7550) Phoenix,AZ (4
6	1 0 (52) 2	Time	oompany to Xenco, its affiliates and subcontractors. It s or expenses incurred by the client if such losses are ed to Xenco, but not analyzed. These terms will be enfo	Al Sb As Ba Be B Cd Ca Cr Co Cu Sb As Ba Be Cd Cr Co Cu Pb Mn					XXX	BTEX	EPA 80 (EPA 8 de (EP	8021	В)					ANALYSIS	Email: <u>ihernandez@ltenv.com &amp; abyers@ltenv.com</u>	Carlsbad, NM 88220	5315 Buena Vista Dr	WPX Energy	Lynda Laumbach	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
		Signature) Received by: (Signature)	t assigns standard terms and conditions due to circumstances beyond the control orced unless previously negotiated.	Ag SiO2														SREQUEST	Deliverables: EDD ADaPT	Reporting:Level II Pvel III T/UST		Program: UST/PST RP rownfields		pa,FL (813-620-2000) www.xenco.com
Revised Date 051418 Rev. 2018.1		Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg						Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm							Work Order Notes	Other:		l	ds Filc Siperfund		Page l of

Final 1.000

## **Eurofins Xenco, LLC**

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature	Range: 0 - 6 degC
Date/ Time Received: 11.02.2020 04.50.00 PM		ceptable Range: Ambient
Work Order #: 676718	Temperature Measuring of	levice used: T_NM_007
Sample Recei	pt 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 conainers.
#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 Checklist reviewed by: Jessica Kramer

Date: 11.03.2020

Date: 11.03.2020

eurofins Environment Testing

Project Id:

**Project Location:** 

**Contact:** 

Xenco

034820029

NM

Joseph Hernandez

## Certificate of Analysis Summary 676720

LT Environmental, Inc., Arvada, CO

Project Name: North Brushy Draw 35-4

Date Received in Lab: Mon 11.02.2020 15:50 **Report Date:** 11.04.2020 12:59 Project Manager: Jessica Kramer

	Lab Id:	676720-001			
Analysis Requested	Field Id:	CH02 @ 6-6.5'			
Analysis Requested	Depth:	6-6.5 ft			
	Matrix:	SOIL			
	Sampled:	10.30.2020 13:25			
BTEX by EPA 8021B	Extracted:	11.03.2020 14:07			
	Analyzed:	11.03.2020 19:17			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		<0.00401 0.00401			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00			
	Analyzed:	11.03.2020 16:37			
	Units/RL:	mg/kg RL			
Chloride		148 9.94			
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27			
	Analyzed:	11.03.2020 20:44			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1			
Diesel Range Organics (DRO)		<50.1 50.1			
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1			
Total TPH		<50.1 50.1			

BRL - Below Reporting Limit

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

Jession Vramer

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# Analytical Report 676720

## for

## LT Environmental, Inc.

**Project Manager: Joseph Hernandez** 

North Brushy Draw 35-4

### 034820029

### 11.04.2020

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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11.04.2020

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

Reference: Eurofins Xenco, LLC Report No(s): 676720 North Brushy Draw 35-4 Project Address: NM

### Joseph Hernandez:

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) 676720. 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. 676720 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,

fession kenner

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 676720

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 6-6.5'	S	10.30.2020 13:25	6 - 6.5 ft	676720-001

Environment Testing Xenco

## **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029

 Work Order Number(s):
 676720

Report Date: *11.04.2020* Date Received: *11.02.2020* 

### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Xenco

## **Certificate of Analytical Results 676720**

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id:         CH02 @ 6-6.5'           Lab Sample Id:         676720-001		Matrix: Date Col	Soil llected: 10.30	.2020 13:25		Date Received:11.0 Sample Depth: 6 - 6		50
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 11.03	.2020 13:00		% Moisture: Basis: Wet	Weight	
Seq Number: 3141306						Dasis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	148	9.94		mg/kg	11.03.2020 16:37		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method:TPH by SW80Tech:MABAnalyst:CACSeq Number:3141297	15 Mod	Date Pre	ep: 11.03	.2020 13:27		% Moisture:	3015P Weight	
Tech: MAB Analyst: CAC	15 Mod Cas Number	Date Pre Result	ep: 11.03 RL	.2020 13:27	Units	% Moisture:		Dil
Tech: MAB Analyst: CAC Seq Number: 3141297				.2020 13:27	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter	Cas Number	Result	RL	.2020 13:27		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.1	RL 50.1	.2020 13:27	mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:44	Weight Flag U	1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.1 <50.1	RL 50.1 50.1	.2020 13:27	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:44 11.03.2020 20:44	Weight Flag U U	1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 13:27 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:44 11.03.2020 20:44 11.03.2020 20:44 11.03.2020 20:44	Weight Flag U U U	1 1 1
Tech: MAB Analyst: CAC Seq Number: 3141297 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 11.03.2020 20:44 11.03.2020 20:44 11.03.2020 20:44 11.03.2020 20:44 35 Analysis Date	Weight Flag U U U U Flag	1 1 1

### Xenco

## **Certificate of Analytical Results 676720**

## LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: Lab Sample	<b>CH02 @ 6-6.5'</b> Id: 676720-001	Matrix: Date Collected	Soil d: 10.30.2020 13:25	Date Received Sample Depth	d:11.02.2020 15:50 :: 6 - 6.5 ft
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.03.2020 14:07	% Moisture: Basis:	Wet Weight
Seq Number:	3141303			Dubib.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	11.03.2020 19:17	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	11.03.2020 19:17		
4-Bromofluorobenzene		460-00-4	88	%	70-130	11.03.2020 19:17		

#### Environment Testing Xenco

# **Flagging Criteria**

- 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			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le 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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### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Seq Number: MB Sample Id:	<b>Inorganic An</b> 3141306 7714455-1-Bl		v EPA 300		Matrix: nple Id:	Solid 7714455-1	I-BKS			rep Metho Date Pro D Sample	ep: 11.0	0P )3.2020 4455-1-BSD	
Parameter		MB	Spike	LCS Result		LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1	<b>Result</b> <10.0	Amount 250	260	%Rec 104	Result 259	<b>%Rec</b> 104	90-110	0	20	mg/kg	11.03.2020 15:10	
									-		88		
Analytical Method:	-	nions by	7 EPA 300			G .'I			Pı	rep Metho			
Seq Number: Parent Sample Id:	3141306 676707-001				Matrix:	Soil 676707-00	)1 S		MS	Date Pre D Sample	•	)3.2020 707-001 SD	
Parameter	I	Parent Result	Spike Amount	MS MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		606	200	796	95	806	100	90-110	1	20	mg/kg	11.03.2020 15:26	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Inorganic An</b> 3141306 676720-001	nions by	7 EPA 300		Matrix: nple Id:	Soil 676720-00	01 S			rep Metho Date Pre D Sample	ep: 11.0	0P )3.2020 720-001 SD	
Parameter		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride	1	Result 148	Amount 200	Result 361	%Rec 107	Result 363	<b>%Rec</b> 108	90-110	1	Limit 20	mg/kg	Date 11.03.2020 16:43	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SW8</b> 3141297 7714426-1- <b>B</b> I		od		Matrix: nple Id:	Solid 7714426-1	I-BKS			rep Metho Date Pre D Sample	ep: 11.0	8015P )3.2020 4426-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Gasoline Range Hydrocarb		Result <50.0	Amount 1000	<b>Result</b> 1180	%Rec 118	Result 1130	%Rec 113	70-135	4	Limit 35	mg/kg	<b>Date</b> 11.03.2020 15:40	
Diesel Range Organics		<50.0	1000	1250	125	1200	120	70-135	4	35	mg/kg	11.03.2020 15:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		122			30		126			-135	%	11.03.2020 15:40	
o-Terphenyl		117		1	20		118		70	-135	%	11.03.2020 15:40	
Analytical Method:	TPH by SW8	8015 M	od						Pr	rep Metho		8015P	
Seq Number:	3141297				Matrix: nple Id:	Solid 7714426-1	I-BLK			Date Pre	ep: 11.0	03.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.03.2020 15:20	

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

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

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

.

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### LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method:	TPH by SV	V8015 M	od						Pi	ep Metho	od: SW	8015P	
Seq Number:	3141297			]	Matrix:	Soil				Date Pre	ep: 11.0	3.2020	
Parent Sample Id:	676707-001	1		MS San	nple Id:	676707-00	01 S		MS	D Sample	e Id: 676	707-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41	
Diesel Range Organics (	(DRO)	<50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				11	29		133		70	-135	%	11.03.2020 16:41	
o-Terphenyl				12	23		105		70	-135	%	11.03.2020 16:41	
Surrogate	(DRO)	<50.3	1010	<b>N</b> %]	<b>IS</b> Rec 29	MS	MSD %Re 133	o MSI c Flag	g 70	-135	Units %	<b>Analysis</b> <b>Date</b> 11.03.2020 16:41	

Analytical Method:	BTEX by EPA 8021	В						P	rep Metho	od: SW	5035A	
Seq Number:	3141303		]	Matrix:	Solid				Date Pr	ep: 11.0	03.2020	
MB Sample Id:	7714462-1-BLK		LCS San	nple Id:	7714462-1	I-BKS		LCS	D Sample	e Id: 771	4462-1-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	0.0975	98	0.0945	95	70-130	3	35	mg/kg	11.03.2020 15:44	
Toluene	< 0.00200	0.100	0.0952	95	0.0926	93	70-130	3	35	mg/kg	11.03.2020 15:44	
Ethylbenzene	< 0.00200	0.100	0.0880	88	0.0861	86	71-129	2	35	mg/kg	11.03.2020 15:44	
m,p-Xylenes	< 0.00400	0.200	0.178	89	0.173	87 70-135		3	35	mg/kg	11.03.2020 15:44	
o-Xylene	< 0.00200	0.100	0.0872	87	0.0851	85	71-133	2	35	mg/kg	11.03.2020 15:44	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	104		10	00		100		70	-130	%	11.03.2020 15:44	
4-Bromofluorobenzene	88		8	5		85		70	-130	%	11.03.2020 15:44	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Metho	od: SW	5035A	
Seq Number:	3141303			Matrix:	Soil				Date Pr	ep: 11.0	03.2020	
Parent Sample Id:	676707-001		MS Sar	nple Id:	676707-00	01 S		MS	D Sample	e Id: 676	707-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.129	128	0.117	117	70-130	10	35	mg/kg	11.03.2020 16:29	
Toluene	< 0.00201	0.101	0.123	122	0.111	111	70-130	10	35	mg/kg	11.03.2020 16:29	
Ethylbenzene	< 0.00201	0.101	0.111	110	0.0997	100	71-129	11	35	mg/kg	11.03.2020 16:29	
m,p-Xylenes	< 0.00402	0.201	0.225	112	0.200	100	70-135	12	35	mg/kg	11.03.2020 16:29	
o-Xylene	< 0.00201	0.101	0.109	108	0.0983	98	71-133	10	35	mg/kg	11.03.2020 16:29	
Surrogate				IS Rec	MS Flag	MSD %Red			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	01		99		70	-130	%	11.03.2020 16:29	

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

4-Bromofluorobenzene

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

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

85

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

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11.03.2020 16:29

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86

70-130

%

Relinquished by: (Signature)	of Xenco. A minimum charge of \$75.	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 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 service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed					1402 @ 6-6.5	Sample Identification	Sample Custody Seals: Y			Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Anna Byers	P.O. Number: Liner	Э́Г.	Project Name: North Bru		e ZIP:	-		Project Manager: Joseph H	LABORATORIE	
	00 will be applied to each	nd relinquishment of sam or the cost of samples an	200.8 / 6020: Metal(s) to be analyz					s S	Matrix Sa	Yes No NA	No	Meg No	210	Temp Blank: Yes	ers		29	North Brushy Draw 35-4	-2329	Midland, TX 79705	3300 North A Street	LT Environmental, Inc.	Joseph Hernandez	ORIES	
Received by: (Signature)	project and a charge of \$	ples constitutes a valid p nd shall not assume any re	~					 19/30/20 1325	Date Time Sampled Sampled	Total Containers:	Correction Factor:	TIMMOU	Thermometer ID	es) No Wet Ice:	Due Date	Rush:	Routine	Tu	Email:					Houston Midlan Hobbs,NM (575-392	
	ib tor each sample subm	urchase order from clier esponsibility for any los	13PPM Texas 11 SPLP 6010: 8RCRA		(X)	17.		6-6.51 1	Depth Numb	) er «	12-1	2		Yes No	Date:		ine B	Turn Around	jhernandez@lten	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	n, 1A (201) 240-4200 hd, TX (432-704-5440) 2-7550) Phoenix,AZ (4	
11/2/20 (520)	Date/Time	nt company to Xenco, its a ses or expenses incurred	RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co			X	2	×××	TPH (E BTEX Chlorid	(EP	A 80	21B	)						Email: jhernandez@ltenv.com & abyers@ltenv.com	Carlsbad, NM 88220	5315 Buena Vista Dr	WPX Energy	Lynda Laumbach	EL Paso, TX (915)585-3 480-355-0900) Atlanta,(	Chain of Custody
	Relinguished by: (Sign	affiliates and subcontractors. It assignly the client if such losses are due talvzed. These terms will be enforced	Cr Co Cu Cu Pb Mn															ANALYSIS REQ	env.com	0	)r			Hobbs,NM (575-392-7550) Phoenix,AZ (490-355-0900) Attanta,GA (770-449-8800) Tampa,FL (81:	ustody
	(Signature) Receiv	It assigns standard terms and conditions e due to circumstances beyond the contro forced unless previously negotiated.	Fe Pb Mg Mn Mo Ni K Se Ag Mo Ni Se Ag Ti U															REQUEST			÷.			3-620-2000)	
	Received by: (Signature)	ons ntrol	SiO2							T	IAI	4									TTI IST	RP rownfields	Order Comn	www.xenco.com P	ork Order No:
Revised Date 051418 Rev. 2018.1	Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471:Hg						Sample Comments		IAI starts the day received by ure lab, if received by 4:30pm	the second by the						Work Order Notes	Curci.	-				Page of	Work Order No: LOTLO +20

## **Eurofins Xenco, LLC**

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC			
Date/ Time Received: 11.02.2020 03.50.00 PM	Air and Metal samples Acceptable Range: Ambient			
Work Order #: 676720	Temperature Measuring device used: T_NM_007			
Sample Recei	pt 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)?	Νο			
#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:

Date: 11.03.2020

Checklist reviewed by: Jessica WAAMER Jessica Kramer

Date: 11.03.2020

District I 1625 N. French Dr., Hobbs, NM 88240

District II

District IV

Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

District III 1000 Rio Brazos Rd., Aztec, NM 87410 CONDITIONS

Action 12034

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

#### CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
WPX E	NERGY PERMIAN, LLC	3500 One Williams Center	Tulsa, OK74172	246289	12034	C-141
OCD Reviewer	Condition					
kcollins	Please file each incident separ	ately. They should each have a fee of \$15	0.00. Please resubmit incident #NR	M2019548894 by itself. Thank you.		