LT Environmental, Inc.

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



August 22, 2018

Ms. Olivia Yu New Mexico Oil Conservation District 1625 North French Drive Hobbs, New Mexico 88240

RE: Closure Request Sharp Nose Federal #1 Tank Battery Remediation Permit Number 1RP-4771 Lea County, New Mexico

Dear Ms. Yu:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following letter report detailing excavation of impacted soil and confirmation soil sampling activities at the Sharp Nose Federal #1 Tank Battery (Site) located in Unit Letter J, Section 13, Township 20 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the excavation activities was to address impact to soil after a third party vehicle contacted and disconnected the load line from the storage tank causing 0.93 barrels (bbls) of crude oil and 45.64 bbls of produced water to release within the containment berm. The release was discovered on July 13, 2017. The release affected approximately 225 square feet of the storage tank containment area. Approximately 0.5 bbl of oil and 45.5 bbls of produced water were recovered immediately using an on-site vacuum truck. The vacuum truck was used to drain the tank to prevent further release until repairs could be made. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on July 27, 2017, and was assigned Remediation Permit Number (RP) 1RP-4771 (Attachment 1). Based on the results of the confirmation sampling event conducted after impacted soil was removed, XTO is requesting no further action for this release.

BACKGROUND

Depth to groundwater at the Site is estimated to be approximately 110 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well with depth to water data is CP 00798, located approximately 3,551 feet southwest of the Site with a total depth of 850 feet. Depth to water is not listed for CP 00798; however; the groundwater potentiometric map used by NMOCD for Lea County indicates groundwater is greater than 100 feet deep at the Site. The closest surface water to the Site is a seasonal playa lake located approximately 4.47 miles west of the Site. The Site is greater than 200 feet from any private domestic water source and greater than 1,000 feet from a water source. Based on these criteria, the NMOCD site ranking for remediation action levels is 0, and the following remediation





action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region, LTE proposes a site-specific chloride action level of 600 mg/kg or within 10 percent (%) of the background concentrations.

INITIAL SOIL SAMPLING

In August 2017, Environmental Plus, Inc. collected preliminary soil samples from seven sample points to delineate the release extent. Surface and subsurface soil samples were collected from each of the seven selected sample locations. The subsurface sample depths ranged from one foot bgs to 12 feet bgs. Soil samples SP1, SP1@12', SP2, SP2@8', SP3, SP3@4' were collected from within the containment berm. Soil samples SP4, SP4@1', SP5, SP5@1', SP6@1', and SP7, SP7@1' were collected from outside the containment berm. The soil sample locations are depicted on Figure 2. The samples were submitted by Environmental Plus, Inc. to Cardinal Laboratories in Hobbs, New Mexico, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, chloride by Method SM4500Cl-B, and TPH-gasoline range organics (GRO) and diesel range organics (DRO) by USEPA Method 8015M. TPH-oil range organics (ORO) were not analyzed in any of the soil samples.

Laboratory analytical results indicated that BTEX, TPH (GRO and DRO), and chloride concentrations were compliant with the NMOCD remediation action levels in all soil samples. However, surface soil sample SP1 had a TPH concentration of 4,527.30 mg/kg not including any potential TPH-ORO impacts. Based on the incomplete TPH results, additional soil assessment was required by NMOCD in the vicinity of soil sample SP1. Laboratory analytical results are presented on Figure 2, summarized in Table 1, and the laboratory analytical report is included as Attachment 2.

FOLLOW-UP SOIL SAMPLING

On February 16, 2018, an LTE scientist returned to the site to assess potential impacts to soil in the vicinity of initial surface sample SP1. LTE collected four soil samples (BH01@0.5', BH01@2', BH01@4', and BH01@6') from a borehole advanced in the location of initial soil sample SP1. Soil samples were screened for volatile aromatic hydrocarbons using a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp in accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, August 13, 1993. The soil samples were collected and placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples were shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for analysis of BTEX by USEPA Method 8021B, TPH-GRO, TPH-DRO, and TPH-ORO by USEPA Method 8015M/D, and chloride by USEPA Method 300.





Yu, O. Page 3

Laboratory analytical results for borehole sample BH01@0.5' indicated the TPH concentration exceeded the remediation action level at a concentration of 25,000 mg/kg. Laboratory analytical results for borehole samples BH01@2', BH01@4', and BH01@6' indicated that BTEX, TPH, and chloride concentrations were compliant with the NMOCD site-specific remediation action levels. Laboratory analytical results are presented on Figure 3, summarized in Table 2, and the laboratory analytical report is included as Attachment 2.

EXCAVATION ACTIVITIES

On May 9, 2018, LTE personnel returned to the Site to oversee excavation of impacted soil as indicated by laboratory analytical results exceeding the NMOCD remediation action level for TPH in soil sample BH01@0.5'. To delineate hydrocarbon and chloride impacts to soil and direct excavation activities, LTE screened soil using a PID and Hach[®] chloride QuanTab[®] test strips. Following excavation activities, LTE collected soil sample SS09A@1' on May 9, 2018. Laboratory analytical results indicated soil sample SS09A@1' exceeded the site-specific remediation action level for chloride, with a value of 732 mg/kg. The excavation was extended in the area of soil sample SS09A@1' and on June 26, 2018 final confirmation soil samples SW01@4' through SW04@4', and FS01@4' were collected from the sidewalls and floor of the excavation. The soil samples were collected, handled, and analyzed as described above and submitted to Xenco Laboratories in Midland, Texas.

The final excavation measured approximately 225 square feet in area with a depth of approximately 4 feet bgs throughout the excavation. The horizontal extent of the excavation is illustrated on Figure 2. The impacted soil was transported and properly disposed of at The Lea Land Landfill in Eunice, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results indicated that initial soil samples BH01@0.5' and SS09A@1' exceeded the NMOCD remediation action levels. Upon excavation of the impacted soil, laboratory analytical results for the final confirmation soil samples (SW01@4' through SW04@4', and FS01@4') indicated that BTEX, TPH, and chloride concentrations were compliant with the NMOCD site-specific remediation action levels. Laboratory analytical results are presented on Figure 3, summarized in Table 2, and the complete laboratory analytical reports are included as Attachment 2.

Please note that additional soil samples included in the laboratory analytical reports are associated with a second release at this site (1RP-4815) that was being excavated and sampled simultaneously. A separate closure request is being submitted for this release.





Yu, O. Page 4

CONCLUSIONS

The impacted soil was excavated and laboratory analytical results for the confirmation soil samples collected from the final excavation extent indicate that BTEX, TPH, and chloride concentrations are compliant with NMOCD site-specific remediation action levels. XTO has successfully removed the impacted soil at the Site and requests no further action for this release. Upon approval of this request, XTO will backfill the excavation with caliche well pad material. An updated NMOCD Form C-141 is included with Attachment 1.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Iduin Baker

Adrian Baker Project Geologist

Ushley L. ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO Mark Naranjo, State Land Office Shelly Tucker, BLM

Attachments:

- Figure 1 Site Location Map
- Figure 2 Soil Sample Locations Environmental Plus, Inc.
- Figure 3 Soil Sample Locations
- Table 1Soil Analytical Results Environmental Plus, Inc.
- Table 2Soil Analytical Results
- Attachment 1 Initial/Final NMOCD Form C-141 (1RP-4771)

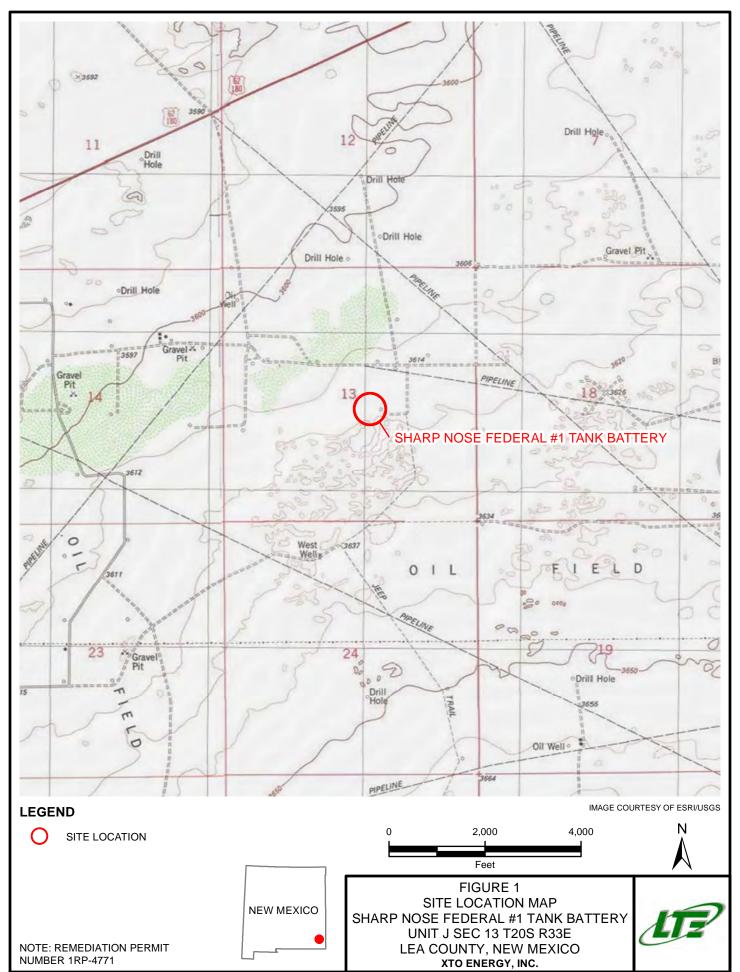
Attachment 2 Laboratory Analytical Reports



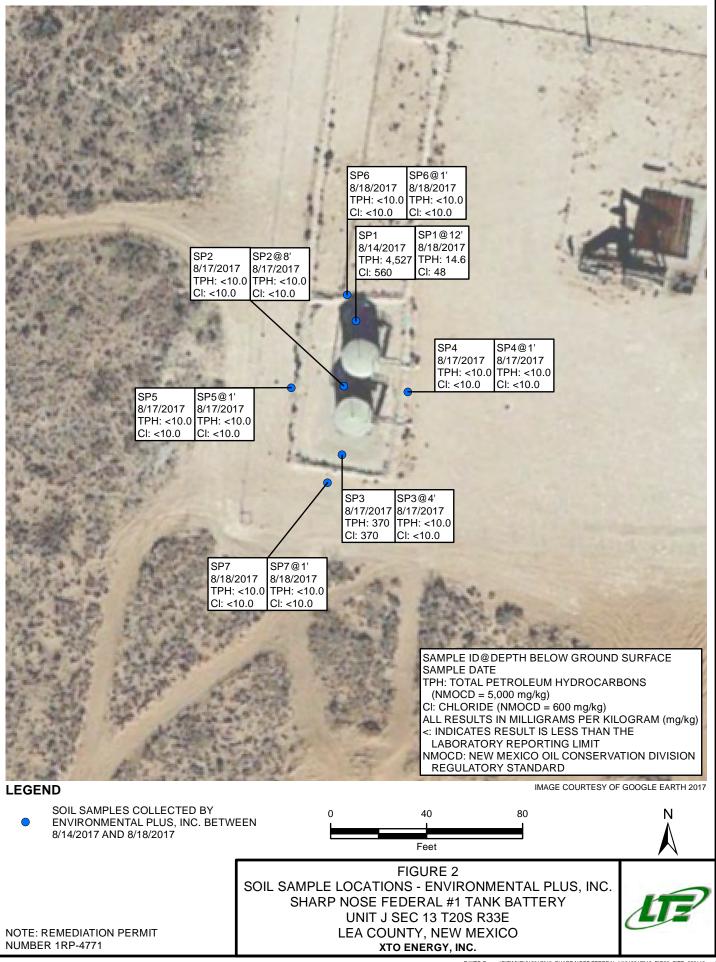
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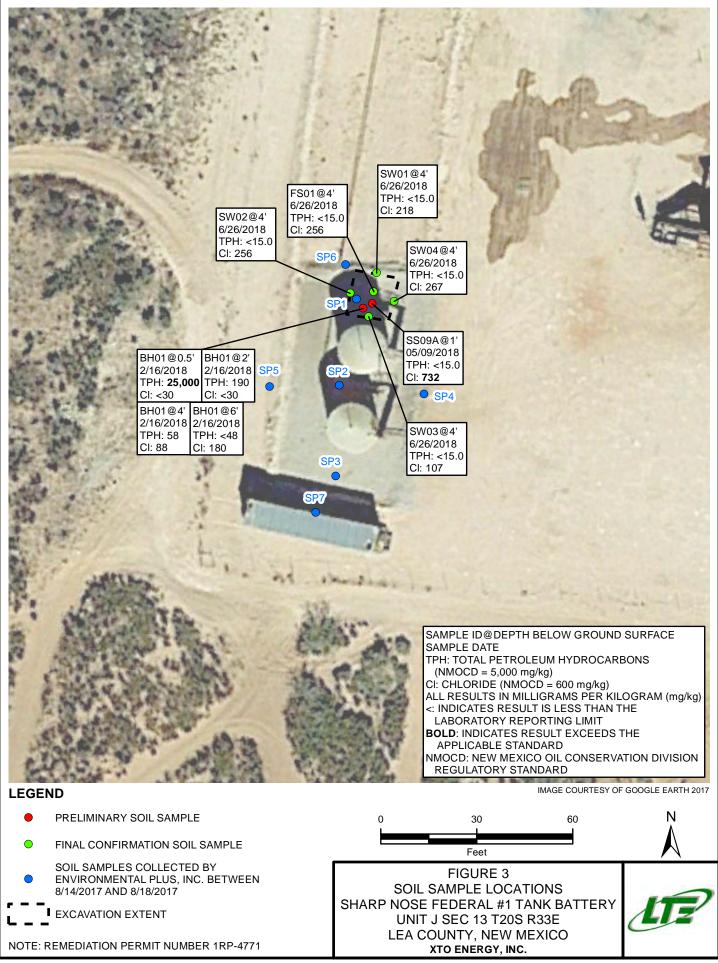
FIGURES





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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS SOIL SAMPLES COLLECTED BY ENVIRONMENTAL PLUS, INC. SHARP NOSE FEDERAL #1 TANK BATTERY REMEDIATION PERMIT NUMBER 1RP-4771 LEA COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	GRO + DRO (mg/kg)	Chloride (mg/kg)
SP1 (Surface)	0	8/14/2017	< 0.050	0.133	< 0.050	< 0.150	< 0.300	17.3	4,510	4,527.30	560
SP1 (12')	12	8/18/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	14.6	14.6	48
SP2 (Surface)	0	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	240
SP2 (8')	8	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	80
SP3 (Surface)	0	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	370	370	272
SP3 (4')	4	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	32
SP4 (Surface)	0	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	80
SP4 (1')	1	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	16
SP5 (Surface)	0	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	64
SP5 (1')	1	8/17/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	16
SP6 (Surface)	0	8/18/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	16
SP6 (1')	1	8/18/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	16
SP 7 (Surface)	0	8/18/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<16
SP 7 (1')	1	8/18/2017	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	176
NMOCD Remedi	iation Action	Levels	10	NE	NE	NE	50	NE	NE	5,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

< - indicates result is below laboratory reporting limits

TABLE 2 SOIL ANALYTICAL RESULTS SHARP NOSE FEDERAL #1 TANK BATTERY REMEDIATION PERMIT NUMBER 1RP-4771 LEA COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-C40 Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
BH01	0.5	2/16/2018	< 0.024	0.052	0.28	6.5	6.8	370	17,000	7,200	25,000	<30
BH01	2	2/16/2018	< 0.024	< 0.048	< 0.048	< 0.095	< 0.095	7.7	97	83	190	<30
BH01	4	2/16/2018	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	<4.8	58	<4.8	58	88
BH01	6	2/16/2018	< 0.025	< 0.050	< 0.050	< 0.099	< 0.099	<5.0	<9.6	<48	<48	180
SS09A @ 1'	1	5/9/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	732
FS01 @ 4'	4	6/26/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	256
SW01	4	6/26/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	218
SW02	4	6/26/2018	< 0.00198	< 0.00198	< 0.00198	< 0.00198	< 0.00198	<15.0	<15.0	<15.0	<15.0	256
SW03	4	6/26/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	107
SW04	4	6/26/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	<15.0	<15.0	<15.0	267
NMOCD Rem	ediation Act	ion Levels	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits

Bold indicates result exceeds the applicable regulatory standard.



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District I 1625 N. French Dr., Hobbs, NM 88240 District II Energy Miner	e of New Me rals and Natu			R	Form C-1 evised August 8, 2
B11 S. First St., Artesia, NM 88210	nservation D		Submit 1 Copy		0
1000 Rio Brazos Road Aztec NM 87410	outh St. Fran		Submit 1 Copy to appropriate District Office accordance with 19.15.29 NMAG		
1000 B B E D B C E ND 4 07505	a Fe, NM 87				
Release Notificat	tion and C	Corrective Ac	tion		
	OPERA		🛛 Initia	al Report	🔲 Final Re
Name of Company: XTO Energy Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Contact: A	my Ruth No. 575-887-7329			
Facility Name: Sharp Nose Federal #1 Tank Battery		pe: Exploration an			
Surface Owner: Federal Mineral Own	ner: Federal		API No	. 30-025-3	1397
LOCAT	ION OF RE	TLEASE			
Unit Letter Section Township Range Feet from the N	lorth/South Line	Feet from the	East/West Line	County	
J 13 208 33E 2300 Se	outh	2200	East	Lea	
Latitude <u>32.572231</u>	<u>Congitue</u>	de -103.615307°	-		
	RE OF REI				
Type of Release Crude oil and produced water	Volume	of Release 0.93 BO 45.64 BPV		Recovered 0.	5 BO 45.5 BPV
Source of Release Third party damage to load line and tank		Hour of Occurrence		Hour of Disc	overy
Was Immediate Notice Given?	If YES, T	7 2:00 pm To Whom?	//13/201	7 2:00 pm	
Yes No Not Requ		ı (NMOCD)			
By Whom? Amy Ruth Was a Watercourse Reached?		Hour 7/14/2017 8:0 /olume Impacting the		isit	
☐ Yes ⊠ No	N/A		watercourse.		
If a Watercourse was Impacted, Describe Fully.*	1	RECEIVE	D		
N/A		By Olivia Y	-	nm lu	128 2017
Third party vehicle made contact with load line from production tank containment. Vacuum truck drained tank to prevent further spillage to Describe Area Affected and Cleanup Action Taken.* The leak affected the area within the earthen containment. All standi I hereby certify that the information given above is true and complete	until repair can b	e made.	as vacuum truc	< was on loca	tion.
regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report b should their operations have failed to adequately investigate and remo or the environment. In addition, NMOCD acceptance of a C-141 repor- federal, state, or local laws and/or regulations.	ase notifications by the NMOCD rediate contamination	and perform correctiv marked as "Final Rep tion that pose a threa	ve actions for rele ort" does not reli t to ground water	eases which n ieve the opera r, surface wat	nay endanger ator of liability er, human healtl
Signature: Mun And		OIL CONSI	ERVATION	DIVISIO	N
Primed Name: Amy C. Ruth	Approved b	y Environmental Spe	cialist:		
Title: Environmental Supervisor	Approval D	ate: 7/28/2017	Expiration	Date:	
E-mail Address: Amy_Ruth@xtoenergy.com	Conditions	of Approval:		Attached	
Date: 7/27/2017 Phone: 432-661-0571		ached directive	e	Anached	
Attach Additional Sheets If Necessary				1	
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District III	, Artesia, NM 8 os Road, Aztec,			Oil Conservation 1220 South St.				Submit 1 Copy to appropriate D accordance with 19			rict Office in 5.29 NMAC.	
	0 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM									_		
			Rele	ease Notific	cation	and Co	orrective A	ction	1			
						OPERAT	TOR	🗌 Iı	nitial Report	\boxtimes	Final Report	
	ompany XTO					Contact: Ky				_		
	04 E Greene						lo: 432-221-733			_		
Facility Na	me: Sharp N	Nose Federa	al#1 Tan	k Battery	-	Facility Typ	e: Exploration a	ind Production	1			
Surface Owner Federal Mineral Owner:						Federal		API	No. 30-025-	31397		
				LOCA	TION	N OF REI	LEASE					
Unit Letter J	Section 13	Township 20S	Range 33E	Feet from the 2300	North/	South Line South	Feet from the 2200	East/West Lin East	ne County Lea			
		Latit	ude	32.572231	L	ongitude	-103.615307	NAD	33			
_				NAT	URE	OF RELI	EASE					
	ease Crude a			• • •		45.64	Release: 0.93 bbl 4 bbls produced v	vater		bbls pro	duced water	
Source of Release: Third party damage to load line and tank Was Immediate Notice Given?					Date and Hour of OccurrenceDate and Hour of Discovery7/13/2017 2:00 pm7/13/2017 2:00 pm							
was immedi	late Notice GI		Yes] No 🗌 Not Ro	equired	If YES, To Olivia Yu (
By Whom? Amy Ruth							our: 7/14/2017 8					
Was a Watercourse Reached?					IFYES, Vo N/A	lume Impacting t	he Watercourse	:				
If a Waterco	ourse was Impa	acted, Descri	ibe Fully.'	* NA		-						
				n Taken.* Third assed to the earther								
immediately samples from compliance May 26, 201 with NMOC	as vacuum tru n seven location with NMOCD 8. Laboratory D site-specific	uck was on l ons on Augu site-specific analytical re c standards.	ocation. A list 14, 17, c standard esults for t A Closure	ten.* The leak aff Soil Sampling R and 18, 2017. La LT Environmen final confirmation Request Report	eport is boratory tal, Inc. soil san is attache	attached desc analytical res collected 10 s nples indicate ed describing	ribing all field ac sults for all soil sa soil samples from d BTEX, TPH, as all field activities	tivities. Enviro amples indicate seven location nd chloride con s.	nmental Plus, d BTEX, TPH s between Feb centrations we	Inc. coll , and chi ruary 16 are in con	ected 14 soil loride were in , 2018 and mpliance	
regulations a public health should their or the enviro	all operators and or the enviro operations have	re required to nment. The ve failed to a dition, NMO	o report an acceptanc adequately OCD accep	e is true and comp ad/or file certain r ce of a C-141 report investigate and r tance of a C-141	elease no ort by the emediate	otifications and NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr e the operator of p	tive actions for eport" does not eat to ground w responsibility f	releases whic relieve the op rater, surface v or compliance	h may en erator of vater, hu with any	ndanger f liability man health	
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V	Kyle Littre	11			-			1				
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	ress: Kyle_Litt				-1	Conditions of			Attache	d 🗌		
Date: 8/27	7/2018	P	hone: 432	2-221-7331		Non	e			_		

* Attach Additional Sheets If Necessary

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August 28, 2017

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: SHARP NOSE FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/22/17 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/22/2017	Sampling Date:	08/14/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP1 (SURFACE) (H702233-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	0.133	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17.3	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	4510	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	101 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	176 9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/22/2017	Sampling Date:	08/18/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP1 (12') (H702233-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	132 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	14.6	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	100 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	103 %	6 34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP2 (SURFACE) (H702233-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	104 9	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	112 %	6 34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP2 (8') (H702233-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/23/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/23/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/23/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/23/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	106 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	110 9	34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP3 (SURFACE) (H702233-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	370	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	101 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	1169	% 34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP3 (4') (H702233-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	99.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	102 9	34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP4 (SURFACE) (H702233-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 72-148							
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	111 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	111 9	34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP4 (1') (H702233-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	95.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	105 9	% 34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP5 (SURFACE) (H702233-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	97.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	98.5	% 34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP5 (1') (H702233-10)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	191	95.4	200	6.17	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	95.9	200	5.37	
Surrogate: 1-Chlorooctane	105 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	109 9	% 34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/18/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP6 (SURFACE) (H702233-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	179	89.5	200	3.01	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	192	96.1	200	1.48	
Surrogate: 1-Chlorooctane	90.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	<i>99.7</i> 9	% 34.7-15	7						

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Received:	08/22/2017	Sampling Date:	08/18/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP6 (1') (H702233-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	183	91.7	200	3.29	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	204	102	200	3.25	
Surrogate: 1-Chlorooctane	99.9	% 28.3-16	4						

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Received:	08/22/2017	Sampling Date:	08/18/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP7 (SURFACE) (H702233-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/25/2017	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	183	91.7	200	3.29	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	204	102	200	3.25	
Surrogate: 1-Chlorooctane	85.5	28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.9	34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	08/22/2017	Sampling Date:	08/18/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	SHARP NOSE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	ХТО	Sample Received By:	Tamara Oldaker
Project Location:	UL - J SEC.13,T20S, R33E		

Sample ID: SP7 (1') (H702233-14)

BTEX 8021B mg/kg		kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2017	ND	2.10	105	2.00	3.71	
Toluene*	<0.050	0.050	08/24/2017	ND	1.94	97.1	2.00	3.19	
Ethylbenzene*	<0.050	0.050	08/24/2017	ND	1.99	99.4	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/24/2017	ND	5.96	99.4	6.00	3.72	
Total BTEX	<0.300	0.300	08/24/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/25/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	183	91.7	200	3.29	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	204	102	200	3.25	
Surrogate: 1-Chlorooctane	95.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	102 9	34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Eunice, NM 88231	P.0	. Bo	ox 1	558	, Eu	nic	e, N	IM &	8823	37							LA	1D		Car	dina		
,	FAX: (575) 394-2601 Environmental Plus	Inc	_			0.0	-				B	ill To)				AN	NAL	YSI	SR	EQI	JES	T	
Company Name	Project Manager Daniel Dominguez								-	_											Т			Т
City, State, Zip	ing / tuti coc																							
PI Phone#/Fax												кто												1
Client Company																								
acility Name	Sharp Nose Federa	#1	-	-	-																			
ocation	UL- J Sec. 13, T205	and the second s	3E	-	-																			
Project Referen		,		-						A	ttn:	Amy	Ruth											
PI Sampler Na		-	-		-	_						-			-		-			-	_	-		-
-ri Samplei Na	Dustin Ground				-	MAT	RIX			PR	ESE	RV.	SAMPLI	NG			14							
LAB I.D. SAMPLE I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI')	SULFATES (SO4")	Hd	TCLP	OTHER >>>	PAH		
HIGANJU	1 SP1 (Surface)	G	-			Х					X		14-Aug-17	14:18	_	X	X							-
	2 SP1 (12')	G	_			X					X		18-Aug-17	11:38	X	_	X							-
	3 SP2 (Surface)	G	1			Х					X		17-Aug-17	9:10	X	-	X					-	\square	
	4 SP2 (8')	G	1			X					X		17-Aug-17	11:00	X	_	X							
	5 SP3 (Surface)	G	1			X					X		17-Aug-17	11:42	X		X		-	-		-		-
	6 SP3 (4')	G	1			X					X		17-Aug-17	12:15	X	-	X		-	-	-	-		
	7 SP4 (Surface)	G	1			X					X		17-Aug-17	13:00	X	_	X	-	-	-	-	-	-	\square
	8 SP4 (1')	G	1			X					X		17-Aug-17	13:15	X	-	X	_	+	⊢	-	-	-	\square
	9 SP5 (Surface)	G	1			X					X		17-Aug-17	13:30	X		X		+	-	-	-		
	0 SP5 (1')		1	Г		X					X		17-Aug-17	13:40	X	X	X		_	_	_	_		

Page 32 of 106

	ntal Plus, Inc.				_	_											01	LA			Card	-	/ Fo	
100 Avenue O, Eun		P.0	. Bo	ox 1	558	, El	Inic	e, n		5823	1							L						
575) 394-3481 FAX	: (575) 394-2601	-	_	_	_	_	_	-	-	-	D	ill To			1		AN	IAL	YSI	SR	EQL	JES	Г	
Company Name	Environmental Plus	, Inc		_	_		-	_			D	III IC		-			1			T	T	T	T	T
PI Project Manager			_		_																			
Mailing Address	P.O. BOX 1558			_	_																			1
City, State, Zip	Eunice New Mexico		-	_	_)	κтο										1		
PI Phone#/Fax#	575-394-3481 / 575-3	394-2	260	1	_																			
Client Company	XTO				_																			
acility Name	Sharp Nose Federa			_	_	1																		
ocation	UL- J Sec. 13, T20S	5, R3	3E	_	_	1					-	A	Buth											
Project Reference					_					A	ttn:	Amy	Ruth											
EPI Sampler Name	Dustin Crockett	-	_	_			RIX	_	-		ESE	pv I	SAMPLI	NG				-	-					
		la:				MA	RIA		-		ESE			10	1			_						
LAB I.D. SAMPLE I.D.		(G)RAB OR (C)O	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI')	SULFATES (SO4")	Hd	TCLP	OTHER >>>	РАН		
11 SP	6 (Surface)	G	1			X					X		18-Aug-17	7:45	X	X	_		-	⊢		\square	+	+
12 SP		G	1			X					X		18-Aug-17	8:00	X	_	_		-	\vdash		\square	+	+
	7 (Surface)	G	1			X					Х		18-Aug-17	8:35	X		_		1	⊢	-	\square	+	+
14 SP		G	1			X					X		18-Aug-17	9:15	X	X	X	-	1	-	-	\square	-	+
15																	-	1	-	+	-	\vdash	+	+
16															1	-	1	1	-	⊢	⊢	\vdash	+	+
17			Γ												╞	⊢	1	⊢	+	⊢	⊢	\vdash	+	+
18			Γ												+	+	+	⊢	+	⊢	⊢	⊢	\vdash	+
19		T	Γ	Γ											+	+	+	+	⊢	⊢	⊢	+	\vdash	+
20			T			Γ											1	_		_	_			_
1														_	-	-							-	
Sampler Relinquished:	Date 8/21/17 Time 6:00 am		xeived	6	~	*	2		,			nail re TES:	sults to: ddomin	guezepi@	gmail	.com	1 & a	my_r	ruth@)xtoe	nerg	y.con	n	
Retinquigned by:	Time 6:00 an Date 3-32-11 Time 3:40		zeivec	By:	(lab st	T		1	6	to la														

Page 33 of 106

Released to Imaging: 3/20/2023 1:40:10 PM



February 26, 2018

Kyle Littlrell LTE 3300 N A St Bldg 1 #103 Midland, TX 79705 TEL: (432) 704-5178 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

OrderNo.: 1802A24

RE: Sharp Nose Federal 1

Dear Kyle Littlrell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/17/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Sharp Nose Federal 1

CLIENT: LTE

Analytical Report Lab Order 1802A24 Date Reported: 2/26/2018

Client Sample ID: BH01 @ 0.5' Collection Date: 2/16/2018 10:00:00 AM

Lab ID: 1802A24-001	Matrix: SOIL			Received Date: 2/17/2018 10:00:00 AM		
Analyses	Result	PQL Q)ual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE				Analyst: TOM		
Diesel Range Organics (DRO)	17000	960		mg/Kg	100	2/21/2018 6:37:39 PM
Motor Oil Range Organics (MRO)	7200	4800		mg/Kg	100	2/21/2018 6:37:39 PM
Surr: DNOP	0	70-130	S	%Rec	100	2/21/2018 6:37:39 PM
EPA METHOD 8015D: GASOLINE RANG	iΕ					Analyst: NSB
Gasoline Range Organics (GRO)	370	4.9		mg/Kg	1	2/21/2018 6:56:05 PM
Surr: BFB	2480	15-316	S	%Rec	1	2/21/2018 6:56:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/21/2018 6:56:05 PM
Toluene	0.052	0.049		mg/Kg	1	2/21/2018 6:56:05 PM
Ethylbenzene	0.28	0.049		mg/Kg	1	2/21/2018 6:56:05 PM
Xylenes, Total	6.5	0.098		mg/Kg	1	2/21/2018 6:56:05 PM
Surr: 4-Bromofluorobenzene	364	80-120	S	%Rec	1	2/21/2018 6:56:05 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	30		mg/Kg	20	2/23/2018 6:32:48 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:
2

CLIENT: LTE

Project: Sharp Nose Federal 1

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Analytical Report Lab Order 1802A24 Date Reported: 2/26/2018

Client Sample ID: BH01 @ 2' Collection Date: 2/16/2018 10:15:00 AM

Lab ID: 1802A24-002	Matrix:	SOIL	Received D	Received Date: 2/17/2018 10:00:00 AM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TO								
Diesel Range Organics (DRO)	97	9.3	mg/Kg	1	2/21/2018 7:05:09 PM			
Motor Oil Range Organics (MRO)	83	46	mg/Kg	1	2/21/2018 7:05:09 PM			
Surr: DNOP	89.5	70-130	%Rec	1	2/21/2018 7:05:09 PM			
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB			
Gasoline Range Organics (GRO)	7.7	4.8	mg/Kg	1	2/22/2018 11:42:14 AM			
Surr: BFB	180	15-316	%Rec	1	2/22/2018 11:42:14 AM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.024	mg/Kg	1	2/22/2018 11:42:14 AM			
Toluene	ND	0.048	mg/Kg	1	2/22/2018 11:42:14 AM			
Ethylbenzene	ND	0.048	mg/Kg	1	2/22/2018 11:42:14 AM			
Xylenes, Total	ND	0.095	mg/Kg	1	2/22/2018 11:42:14 AM			
Surr: 4-Bromofluorobenzene	96.8	80-120	%Rec	1	2/22/2018 11:42:14 AM			
EPA METHOD 300.0: ANIONS					Analyst: CJS			
Chloride	ND	30	mg/Kg	20	2/23/2018 6:45:12 AM			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Project: Sharp Nose Federal 1

CLIENT: LTE

Analytical Report Lab Order 1802A24 Date Reported: 2/26/2018

Client Sample ID: BH01 @ 4' Collection Date: 2/16/2018 10:30:00 AM

Lab ID: 1802A24-003	Matrix:	SOIL	Received D	ate: 2/17/2	018 10:00:00 AM
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5			Analyst: TOM
Diesel Range Organics (DRO)	58	9.6	mg/Kg	1	2/21/2018 7:32:41 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/21/2018 7:32:41 PM
Surr: DNOP	88.0	70-130	%Rec	1	2/21/2018 7:32:41 PM
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/21/2018 7:43:29 PM
Surr: BFB	127	15-316	%Rec	1	2/21/2018 7:43:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/21/2018 7:43:29 PM
Toluene	ND	0.048	mg/Kg	1	2/21/2018 7:43:29 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/21/2018 7:43:29 PM
Xylenes, Total	ND	0.096	mg/Kg	1	2/21/2018 7:43:29 PM
Surr: 4-Bromofluorobenzene	97.0	80-120	%Rec	1	2/21/2018 7:43:29 PM
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	88	30	mg/Kg	20	2/23/2018 6:57:37 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: *	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Sharp Nose Federal 1

1802A24-004

CLIENT: LTE

Project:

Lab ID:

Analytical Report Lab Order 1802A24

Date Reported: 2/26/2018
Client Sample ID: BH01 @ 6'

Collection Date: 2/16/2018 10:45:00 AM Received Date: 2/17/2018 10:00:00 AM

		~					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/21/2018 7:59:40 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/21/2018 7:59:40 PM		
Surr: DNOP	88.6	70-130	%Rec	1	2/21/2018 7:59:40 PM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/21/2018 8:07:10 PM		
Surr: BFB	96.6	15-316	%Rec	1	2/21/2018 8:07:10 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.025	mg/Kg	1	2/21/2018 8:07:10 PM		
Toluene	ND	0.050	mg/Kg	1	2/21/2018 8:07:10 PM		
Ethylbenzene	ND	0.050	mg/Kg	1	2/21/2018 8:07:10 PM		
Xylenes, Total	ND	0.099	mg/Kg	1	2/21/2018 8:07:10 PM		
Surr: 4-Bromofluorobenzene	95.4	80-120	%Rec	1	2/21/2018 8:07:10 PM		
EPA METHOD 300.0: ANIONS					Analyst: CJS		
Chloride	180	30	mg/Kg	20	2/23/2018 7:10:01 AM		

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: *	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 8
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 5 of 8

Hall Env	WO#:	1802A24 26-Feb-18			
Client:	LTE				
Project:	Sharp	Nose Federal 1			
Sample ID M	IB-36684	SampType: mblk	TestCode: EPA Method 300.0: Anions		
Client ID: P	BS	Batch ID: 36684	RunNo: 49353		
Prep Date:	2/22/2018	Analysis Date: 2/23/2018	SeqNo: 1593362 Units: mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID LCS-36684	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch	n ID: 36	684	R	RunNo: 4	9353				
Prep Date: 2/22/2018	Analysis D	ate: 2/	23/2018	S	SeqNo: 1	593363	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	WO#:
2	

Client: LTE Project: Sharp N	lose Federal	1								
Sample ID LCS-36618	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 36	618	R	unNo: 49	9270				
Prep Date: 2/20/2018	Analysis Da	ate: 2/	21/2018	S	eqNo: 1	590096	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.0	70	130			
Surr: DNOP	4.6		5.000		92.2	70	130			
Sample ID MB-36618	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 36	618	R	unNo: 49	9270				
Prep Date: 2/20/2018	Analysis Da	ate: 2/	21/2018	S	eqNo: 1	590097	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.2	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc. _

25

1100

5.0

25.00

1000

Client:LTProject:Sh	È arp Nose Federal 1					
Sample ID MB-36607	SampType: MBLK	TestCode:	EPA Method	8015D: Gasoline Ra	inge	
Client ID: PBS	Batch ID: 36607	RunNo:	49303			
Prep Date: 2/20/2018	Analysis Date: 2/21/20	8 SeqNo:	1590999	Units: mg/Kg		
Analyte	Result PQL SPK	value SPK Ref Val %RE	C LowLimit	HighLimit %RP	D RPDLimit	Qual
Gasoline Range Organics (GI Surr: BFB	RO) ND 5.0 860	1000 86.	4 15	316		
Sample ID LCS-36607	SampType: LCS	TestCode:	EPA Method	8015D: Gasoline Ra	inge	
Client ID: LCSS	Batch ID: 36607	RunNo:	49303			
Prep Date: 2/20/2018	Analysis Date: 2/21/20	8 SeqNo:	1591000	Units: mg/Kg		
Analyte	Result PQL SPK	value SPK Ref Val %RE	C LowLimit	HighLimit %RP	D RPDLimit	Qual

0

98.7

107

75.9

15

131

316

Qualifiers:

Gasoline Range Organics (GRO)

Surr: BFB

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1802A24

26-Feb-18

WO#:

Page 7 of 8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

Pag	e 42	of.	106
<u> </u>			

	WO#:	1802A24
tory, Inc.		26-Feb-18

Client: Project:	LTE Sharp Nose Feder	al 1								
Sample ID MB-366	07 Sam	oType: M I	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Bat	ch ID: 36	607	F	RunNo: 4	9303				
Prep Date: 2/20/2	018 Analysis	Date: 2	/21/2018	S	SeqNo: 1	591037	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorober	nzene 0.83		1.000		82.8	80	120			
Sample ID LCS-36	607 Sam	oType: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bat	ch ID: 36	607	F	RunNo: 4	9303				
Prep Date: 2/20/2	018 Analysis	Date: 2	/21/2018	S	SeqNo: 1	591038	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	1.000	0	79.4	77.3	128			
Toluene	0.88	0.050	1.000	0	87.9	79.2	125			
louene	0.00	0.000	1.000	-						
Ethylbenzene	0.88	0.050	1.000	0	95.7	80.7	127			
				-	95.7 95.2	80.7 81.6	127 129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 8

Received by OCD: 3/20/2023 1:39:19 PM

ANALYSIS LABORATORY	Environmental Analysis Labo 4001 Bareki Albuquerque, NM 505-345-3975 FAX: 505-345 ebsile: www.haltenvironmenta	67109 Sa	Sample Log-In Check List				
Client Name: LTE MIDLAND Work C	Order Number: 1802A24		RoptNo: 1				
Received By: Ashley Gallegos 2/17/201	8 10:00:00 AM	AZ					
Completed By Ashley Gallegos 2/19/201	8 2:47:53 PM	-At-z					
Reviewed By: 4 02/19/18	Label	ed by:	SPE Callelle				
Chain of Custody							
1 Is Chain of Custody complete?	Yes V	No 🗖	Not Present				
2. How was the sample delivered?	Couries	1.0.00					
Log In							
3. Was an attempt made to cool the samples?	Yes 🔽	No 🔲	NA 🗌				
 Were ell samples received at a temperature of >0" D to 	6.0°C Yes 🗹	Na 🗔	NA 🗌				
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗆					
6. Sufficient sample volume for indicated test(s)?							
 Are samples (except VOA and ONG) properly preserved. 	Yes M	No					
 Was preservative added to bottles? 		Na 🗌					
a true history dute acted to indian?	Yes	No 🗹	NA 🗌				
9. VOA vials have zero headspace?	Yes	No	No VOA Vials				
D. Were any sample containers received broken?	Yes 🗐	No 🗹	Con a politication of the				
			# of preserved				
1 Does paperwork match bottle abels?	Ves 🗹	No 🗔	bottles checked for pH				
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody?		-	(<2 or >12 unless noted)				
 Is if clear what analyses were requested? 	Yes M	No 🗌	Adjusted7				
4. Ware all holding times able to be met?	Yes 🗹	No 🗌	ation 10.7				
(If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:				
pecial Handling (if applicable)							
5. Was client notified of all discrepancies with this order?	Yes 🗔	No []	NA V				
Person Notified:	Date						
By Whom:	COLOR AND THE COLOR		Change and the second				
Regarding:	And Disurga Dist.	none 🗌 Fax	In Person				
Client Instructions:							
6. Additional remarks:							
7 Cooler Information Cooler No Temp °C Condition Seal Intact Se	and some of						
Cooler No Temp C Condition Seal Intact Se 2.0 Good Yes	val No Seál Date s	Signed By					
1 ALL 1 ALL 1 ALL 1							
Page 1 of 1		-					

Permiun BHI Alore Project Name: P		HALL ENVIRONMENTAL
Permiun BY/cc Protect Name: Swite 103 Midlaud TX Sharp Nose Federal H Swite 103 Midlaud TX Portect Name: Sharp Nose Federal H Swite 103 Midlaud TX Portect Name: Sharp Nose Federal H 4332-704-5178 Protect Name: Sanget Manager: Protect Name Protect Name Protect Name 1322-704-5178 Protect Name Protect Name Protect Name Protect Name Protect Name 1322-704-5178 Protect Name Protect Name Protect Name Protect Name Protect Name 10101 Danker @ Henv.com Protect Name Protect Name Protect Name Protect Name 10101 Done Sample Request ID Protect Name Protect Name Protect Name Protect Name 10101 Done BH ol @ 2' 1-14 oz. Cool 1 -003 P P P P P P P P P P P <td< th=""><th></th><th>ANALYSIS LABORATORY</th></td<>		ANALYSIS LABORATORY
diffess: 3300 N. A Streeth Sharp Nose Federal TI 4901 Hawkins NE - Suith 103 Midlaud TX Project # 1401 Hawkins NE - Suith 103 Midlaud TX 30 - 025 - 31397 1401 Hawkins NE - $322 - 704 - 5178$ 77405 50 - 025 - 31397 141 Hawkins NE - $322 - 704 - 5178$ 7705 50 - 025 - 31397 141 Hawkins NE - ackt: Abakea @ Henv.com Project Manager. XT 0 Eversy - Kyle L: thrcl II v322 - 704 - 5178 7705 50 - 025 - 31397 141 Hawkins NE - ackt: Abakea @ Henv.com Project Manager. XT 0 ackt: Abakea @ Henv.com Project Manager. 101 Markins NE - root 0.01er Sampler. Done 101 Markins NE - root 0.01er Sampler. Sampler. 100 Markins NE - root 0.001 X 17 PH Melhoud 41 81, 11 root 101 PL 17 Paservative 17 Ph Melhoud 40 41 81, 11 root 8101 @ 0.5' 1-4 oz. cool -0.001 root 8101 @ 0.5' 1-4 oz. -0.003 1 root 8101 @ 0.5' 1-4 oz. -0.003 1 root 8101 @ 0.5' -1-4 oz. -0.003 <t< td=""><td>- 1 - 1 HI</td><td>hallenvironmental.com</td></t<>	- 1 - 1 HI	hallenvironmental.com
Rel 103 Midlaud TX Project #: Project #: 232 - 704 - 5178 71705 30 - 0.25 -31.3975 232 - 704 - 5178 71705 30 - 0.25 -31.3975 232 - 704 - 5178 71705 Ewctsy - Kyle Litterli 232 - 704 - 5178 71705 Ewctsy - Kyle Litterli 232 - 704 - 5178 Project Manager Project Manager Project Manager XT 0 Ewctsy - Kyle Litterli Project Manager Project Manager XT 0 Ewctsy - Kyle Litterli Project Manager Project Manager Abacker @ltenv.com XT 0 Ewctsy - Kyle Litterli Project Manager 230016 Bampler: Damper Damper Preservative HELLIN Project Manager PDA Sample Request ID Type RCAA & Metals PDA BH 01 @ 0.5' Litterli Project Manager BH 01 @ 1' Litterli POC Doct V BH 01 @ 1' Litterli POC Doct V V Branch BH 01 @ 1' Litterli POC Doct V Branch BH 01 @ 1' Litterli POC V POC Branch Branch Litterli POC V V <t< th=""><th>redicial 11.</th><th>- Albuquerque, NM 87109</th></t<>	redicial 11.	- Albuquerque, NM 87109
Active Line Index Date Index	-31397	'5 Fax 505-345-4107 Analysis Request
I Level 4 (Full Validation) XTO Ewc(s) XYIE XTO Ewc(s) XYIE I Level 4 (Full Validation) XTO Ewc(s) XTO Ewc(s) XYIE XTO Ewc(s) XYIE I Level 4 (Full Validation) Sample Sample Sample Request ID Container Pase Rec(s), NO ₂ , NO ₂ , PO ₄ , S Rathix Sample Request ID Type and # Type Type and # Type RH ol (201 X RH ol (201 X REX + MTBE + TPH (Gass 0 RH ol (201 X RH ol (201 X Reacontainer RH ol (201 X REX + MTBE + TPH (Gass 0 Reason 0 RH ol (201 X Readones 1 D D Remark Readones 1 D D D Remark Container Tope R Readones 1 Readones 1 D D D Container Remark Sample Request 1D L Container Remark R R R R Remark R D Container R R R R R R R R R R R R R R <td< td=""><td></td><td>Ì</td></td<>		Ì
Other Other Other Other Other Other Other Other Other Other Other Sample Request ID Container Preservative PA Sample Request ID Container Preservative Type Type Antions (F, Cl, NO, JUC) Sample Request ID Container Preservative Type and # Type Antions (F, Cl, NO, JUC) Sample Request ID Container Preservative The Melhol @ 0.5' 1-4 oz. Cool BHol @ 0.5' 1-4 oz. Cool BHol @ 2' -001 X BHol @ 2' -003 X BHol @ 10 -003 X BHol @ 2' -003 X BHol @ 10 -003 X BHol @ 10 -003 X Branch Branch Antions (F, Cl, NO, JUC) Branch Branch Antions (F, Cl, NO, JUC)	1 - Kyle Litterin (200 0)	1 A
Participation Difference intermediation Difference intermediation Partix Sample Request ID Container Preservative Reconstruction Type and # Type Type (F.Cl.NO) Reconstruction Sample Request ID Container Preservative Reconstruction Type and # Type Type (F.Cl.NO) Sils BH ol @ 0.5' I - 4 e.2. Cool X Reconstruction Solution Container Preservative Reconstruction Solution Solution Solution Sils BH ol @ 0.5' I - 4 e.2. Cool Sils BH ol @ 2' 00.1 X Recentation Sils BH ol @ 1' 00.3 Cool X BH ol @ 1' 00.3 00.3 00.4 BH ol @ 1' 00.3 00.4 00.4 Brance 00.3 00.4 00.4 BH ol @ 1' 00.3 00.4 00.4 Brance 00.3 00.4 00.4 Brance 00.4 00.4 00.4 Brance 00.4 00.4 00.4 Brance 00.4 00.4 00.4 <	(+ 18 SI H H 2 2242-045-104 SWING	Mt*W (1 808/ 20N'E
Matrix Sample Request ID Container Preservative HEAL No. Type and # Type Type and # Type BH 01 @ 0.5' I-402. cool > 0061 Peaded BH 01 @ 4' - 0003 + 1800 BH 0100 BH 01 @ 4' - 0003 + 1800 BH 0100 BH 01 @ 4' - 0003 + 1800 BH 0100 BH 01 @ 4' - 0003 + 1800 BH 0100 BH 01 @ 4' - 0003 + 1800 BH 0100 BH 01 @ 4' - 0003 + 1800 BH 0100 BH 01 @ 6' - 0003 + 1800 BH 000 BH 01 @ 6' - 0003 + 1800 BH 000 BH 01 @ 6' - 0003 + 1800 BH 000 BH 01 @ 6' - 0003 + 1800 BH 000 BH 0	05 P P 108 H P 108 H P 10 10 11 10 10 11 10 10 11 10 10 11 10 10	I) VOA ((Səp ON' SIP
0:00 S BHOI @ 0.5' I-402. cool -001 10:15 BHOI @ 2' I-402. cool -003 10:15 BHOI @ 4' -003 -003 10:45 BHOI @ 4' -004 -004 10:45 BHOI @ 6' -004 -004	TPH (Method TPH (Method TPH (Method TPH (Method TPH (Method TPH (Method	RCRA 8 Met D,7) anoinA
10:15 8Ho1 @ 2' -003 10:30 8Ho1 @ 4' -003 10:45 8Ho1 @ 4' -004 10:45 8Ho1 @ 6' -004 10:45 8Ho1 @ 6' -004	100- 100	X
6 BHOI@Y BHOI@C BHOI@C -003 -004 -004 -004 -004 -004 -004 -004		
10:45 V BHOLPC V V -OOL	-003	
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Received by OCD: 3/20/2023 1:39:19 PM

for LT Environmental, Inc.

Project Manager: Adrian Baker

Sharpnose Federal #1

3002531397

14-AUG-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)





14-AUG-18

SUP ACCREDIES

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

Reference: XENCO Report No(s): **585760 Sharpnose Federal #1** Project Address: 1RP-4815, 1RP-4771

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 585760. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 585760 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession knomen

Jessica Kramer Project Assistant

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



Sample Id

Sample Cross Reference 585760



Sharpnose Federal #1

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	05-08-18 12:45	1.5 ft	585760-001
S	05-08-18 13:00	1 ft	585760-002
S	05-08-18 13:45	1.5 ft	585760-003
S	05-09-18 09:00	1 ft	585760-004
S	05-09-18 09:30	2 ft	585760-005
S	05-09-18 09:40	1 ft	585760-006
S	05-09-18 09:45	2 ft	585760-007
S	05-09-18 09:50	2 ft	585760-008
S	05-09-18 10:00	1 ft	585760-009



.



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Sharpnose Federal #1

 Project ID:
 3002531397

 Work Order Number(s):
 585760

ORATORIES

Report Date: 14-AUG-18 Date Received: 05/11/2018

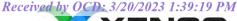
Sample receipt non conformances and comments:

Per clients email request, corrected samples 001-009 to add the letter A. JKR 08/14/18 Version _1_001 Generated

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3050168 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





 Project Id:
 3002531397

 Contact:
 Adrian Baker

 Project Location:
 1RP-4815, 1RP-4771

Certificate of Analysis Summary 585760

LT Environmental, Inc., Arvada, CO Project Name: Sharpnose Federal #1



Date Received in Lab: Fri May-11-18 10:55 am Report Date: 14-AUG-18 Project Manager: Jessica Kramer

	Lab Id:	585760-0	001	585760-	002	585760-0	003	585760-	004	585760-0	005	585760-006		
	Field Id:	SS01A @	SS01A @1.5'		SS02A @1'		SS03A @1.5'		SS04A @1'		SS05A @2'		SS06A @1'	
Analysis Requested	Depth:	1.5- ft	t	1- ft		1.5- ft		1- ft		2- ft		1- ft		
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL		SOIL		SOIL		
	Sampled:	May-08-18	May-08-18 12:45		13:00	May-08-18	13:45	May-09-18	09:00	May-09-18 09:30		May-09-18 09:40		
BTEX by EPA 8021B	Extracted:	May-15-18	May-15-18 16:00		16:00	May-15-18 16:00		May-15-18	16:00	May-15-18 16:00		May-15-18 16:00		
	Analyzed:	May-16-18	May-16-18 00:59		01:20	May-16-18	02:24	May-16-18	02:46	May-16-18	03:07	May-16-18	03:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199	
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199	
Ethylbenzene		<0.00200 0.00200		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199	
m,p-Xylenes		<0.00401 0.00401		< 0.00402	0.00402	< 0.00397	0.00397	< 0.00403	0.00403	< 0.00403	0.00403	< 0.00398	0.00398	
o-Xylene		<0.00200 0.0020		< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199	
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199	
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199	
Inorganic Anions by EPA 300	Extracted:	May-14-18	15:30	May-14-18 15:30		May-14-18 15:30		May-14-18 15:30		May-14-18 15:30		May-14-18 15:30		
	Analyzed:	May-14-18	16:38	May-14-18	16:20	May-14-18	16:44	May-14-18 16:50		May-14-18	16:56	May-14-18 17:14		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		< 5.00	5.00	54.6	5.00	37.3	5.00	<4.99	4.99	227	4.99	18.5	5.00	
TPH by SW8015 Mod	Extracted:	May-11-18	16:00	May-11-18	16:00	May-11-18	16:00	May-11-18	16:00	May-11-18	16:00	May-11-18	16:00	
	Analyzed:	May-12-18	02:36	May-12-18	03:03	May-12-18	03:30	May-12-18	03:56	May-12-18	04:24	May-12-18	04:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	182	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	31.6	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	
Total TPH		<15.0	15.0	<15.0	15.0	214	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	

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

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lession Vramer

Jessica Kramer Project Assistant

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 Project Id:
 3002531397

 Contact:
 Adrian Baker

 Project Location:
 1RP-4815, 1RP-4771

Certificate of Analysis Summary 585760

LT Environmental, Inc., Arvada, CO Project Name: Sharpnose Federal #1



Date Received in Lab: Fri May-11-18 10:55 am Report Date: 14-AUG-18 Project Manager: Jessica Kramer

	Lab Id:	585760-0	007	585760-0	008	585760-0)09		
An alugia Demostad	Field Id:	SS07A @	SS07A @2'		SS08A @2'		21'		
Analysis Requested	Depth:	2- ft		2- ft		1- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	May-09-18	09:45	May-09-18	09:50	May-09-18	10:00		
BTEX by EPA 8021B	Extracted:	May-15-18	16:00	May-15-18	16:00	May-15-18	16:00		
	Analyzed:	May-16-18	03:50	May-16-18	04:11	May-16-18 04:33			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201		
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201		
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201		
m,p-Xylenes		< 0.00400	0.00400	< 0.00402	0.00402	< 0.00402	0.00402		
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201		
Total Xylenes		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201		
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00201	0.00201		
Inorganic Anions by EPA 300	Extracted:	May-14-18	15:30	May-14-18 15:30		May-14-18 15:30			
	Analyzed:	May-14-18	17:20	May-14-18	17:26	May-14-18 17:32			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<4.96	4.96	<4.99	4.99	732	4.97		
TPH by SW8015 Mod	Extracted:	May-11-18	16:00	May-11-18	16:00	May-11-18	16:00		
	Analyzed:	May-12-18	05:18	May-12-18	05:44	May-12-18	06:10		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	·	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0		

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

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lession Vramer

Jessica Kramer Project Assistant

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Final 1.001





LT Environmental, Inc., Arvada, CO

Sharpnose Federal #1

Sample Id:	SS01A @1.5'		Matrix:	Soil		Date Received:05.	11.18 10.5	5
Lab Sample I	d: 585760-001		Date Colle	cted: 05.08.18 12.45	Ĩ	Sample Depth: 1.5 ft		
Analytical Me	ethod: Inorganic Anions	by EPA 300				Prep Method: E30)0P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	05.14.18 15.30		Basis: We	t Weight	
Seq Number:	3050071							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	< 5.00	5.00	mg/kg	05.14.18 16.38	U	1

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 05.11.	18 16.00	E	Basis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 02.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	05.12.18 02.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	05.12.18 02.36	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.12.18 02.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	102	%	70-135	05.12.18 02.36		
o-Terphenyl		84-15-1	101	%	70-135	05.12.18 02.36		

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LT Environmental, Inc., Arvada, CO

Sample Id: SS01A @1.5' Lab Sample Id: 585760-001	Matrix: Soil Date Collected: 05.08.18 12.45	Date Received:05.11.18 10.55 Sample Depth: 1.5 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ Analyst: ALJ Seq Number: 3050168	Date Prep: 05.15.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.16.18 00.59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.16.18 00.59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.16.18 00.59	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	05.16.18 00.59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.16.18 00.59	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.16.18 00.59	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.16.18 00.59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	70-130	05.16.18 00.59		
1,4-Difluorobenzene		540-36-3	95	%	70-130	05.16.18 00.59		





LT Environmental, Inc., Arvada, CO

Sharpnose Federal #1

Sample Id: SS02A @1'		Matrix:	Soil		Date Received:05.	11.18 10.5	5
Lab Sample Id: 585760-002		Date Colle	cted: 05.08.18 13.00		Sample Depth: 1 ft		
Analytical Method: Inorganic Anion	s by EPA 300				Prep Method: E3	90P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	05.14.18 15.30		Basis: We	t Weight	
Seq Number: 3050071							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54.6	5.00	mg/kg	05.14.18 16.20		1

Analytical Method: TPH by SW8013	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 05.11	18 16.00	В	asis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 03.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	05.12.18 03.03	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	05.12.18 03.03	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.12.18 03.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	05.12.18 03.03		
o-Terphenyl		84-15-1	99	%	70-135	05.12.18 03.03		

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LT Environmental, Inc., Arvada, CO

Sample Id: SS02A @1' Lab Sample Id: 585760-002	Matrix: Soil Date Collected: 05.08.18 13.00	Date Received:05.11.18 10.55 Sample Depth: 1 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3050168	Date Prep: 05.15.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.16.18 01.20	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.16.18 01.20	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.16.18 01.20	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.16.18 01.20	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.16.18 01.20	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.16.18 01.20	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.16.18 01.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	84	%	70-130	05.16.18 01.20		
1,4-Difluorobenzene		540-36-3	85	%	70-130	05.16.18 01.20		





LT Environmental, Inc., Arvada, CO

Sample Id: SS03A @1.5'		Matrix:	Soil		Date Received:05.	11.18 10.5	5
Lab Sample Id: 585760-003		Date Collec	cted: 05.08.18 13.45		Sample Depth: 1.5	ft	
Analytical Method: Inorganic Anion	s by EPA 300				Prep Method: E30)0P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	05.14.18 15.30		Basis: We	t Weight	
Seq Number: 3050071							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.3	5.00	mg/kg	05.14.18 16.44		1

Analytical Method: TPH by SW801:	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 05.11	18 16.00	В	Basis: Wet	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 03.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	182	15.0		mg/kg	05.12.18 03.30		1
Oil Range Hydrocarbons (ORO)	PHCG2835	31.6	15.0		mg/kg	05.12.18 03.30		1
Total TPH	PHC635	214	15.0		mg/kg	05.12.18 03.30		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	05.12.18 03.30		
o-Terphenyl		84-15-1	91	%	70-135	05.12.18 03.30		





LT Environmental, Inc., Arvada, CO

Sample Id: SS03A @1.5' Lab Sample Id: 585760-003	Matrix: Soil Date Collected: 05.08.18 13.45	Date Received:05.11.18 10.55 Sample Depth: 1.5 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3050168	Date Prep: 05.15.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	05.16.18 02.24	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	05.16.18 02.24	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	05.16.18 02.24	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	05.16.18 02.24	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	05.16.18 02.24	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	05.16.18 02.24	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	05.16.18 02.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	98	%	70-130	05.16.18 02.24		
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.16.18 02.24		





LT Environmental, Inc., Arvada, CO

Sample Id: SS04A @1' Lab Sample Id: 585760-004		Matrix: Date Collec	Soil cted: 05.09.18 09.00		Date Received:05. Sample Depth: 1 ft		5
Analytical Method: Inorganic Anior Tech: SCM	s by EPA 300				Prep Method: E30 % Moisture:	00P	
Tech: SCM Analyst: SCM		Date Prep:	05.14.18 15.30			t Weight	
Seq Number: 3050071							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	05.14.18 16.50	U	1

Analytical Method: TPH by SW8013	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 05.11.	18 16.00	E	Basis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 03.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	05.12.18 03.56	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	05.12.18 03.56	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.12.18 03.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	05.12.18 03.56		
o-Terphenyl		84-15-1	91	%	70-135	05.12.18 03.56		





LT Environmental, Inc., Arvada, CO

Sample Id: SS04A @1' Lab Sample Id: 585760-004	Matrix: Soil Date Collected: 05.09.18 09.00	Date Received:05.11.18 10.55 Sample Depth: 1 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3050168	Date Prep: 05.15.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.16.18 02.46	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.16.18 02.46	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.16.18 02.46	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	05.16.18 02.46	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.16.18 02.46	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.16.18 02.46	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.16.18 02.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	86	%	70-130	05.16.18 02.46		
1,4-Difluorobenzene		540-36-3	92	%	70-130	05.16.18 02.46		





LT Environmental, Inc., Arvada, CO

Sample Id: SS05A @2'		Matrix:	Soil		Date Received:05.	11.18 10.5	5
Lab Sample Id: 585760-005		Date Collec	ted: 05.09.18 09.30		Sample Depth: 2 ft		
Analytical Method: Inorganic Ani	ons by EPA 300				Prep Method: E30)0P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	05.14.18 15.30		Basis: We	t Weight	
Seq Number: 3050071							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	227	4.99	mg/kg	05.14.18 16.56		1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 05.11	18 16.00	E	Basis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	05.12.18 04.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	05.12.18 04.24	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	05.12.18 04.24	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	05.12.18 04.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	05.12.18 04.24		
o-Terphenyl		84-15-1	98	%	70-135	05.12.18 04.24		





LT Environmental, Inc., Arvada, CO

Sample Id: SS05A @2' Lab Sample Id: 585760-005	Matrix: Soil Date Collected: 05.09.18 09.30	Date Received:05.11.18 10.55 Sample Depth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3050168	Date Prep: 05.15.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	05.16.18 03.07	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	05.16.18 03.07	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	05.16.18 03.07	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	05.16.18 03.07	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	05.16.18 03.07	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	05.16.18 03.07	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	05.16.18 03.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.16.18 03.07		
1,4-Difluorobenzene		540-36-3	106	%	70-130	05.16.18 03.07		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS06A @1'		Matrix:	Soil		Date Received:05.	11.18 10.5	5
Lab Sample Id	: 585760-006		Date Colle	cted: 05.09.18 09.40		Sample Depth: 1 ft		
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method: E30)0P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	05.14.18 15.30		Basis: We	t Weight	
Seq Number:	3050071							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	18.5	5.00	mg/kg	05.14.18 17.14		1

Analytical Method: TPH by SW801: Tech: ARM	5 Mod					rep Method: TX 6 Moisture:	1005P	
Analyst: ARM		Date Pre	p: 05.11.	18 16.00	E	Basis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 04.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	05.12.18 04.51	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	05.12.18 04.51	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.12.18 04.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.12.18 04.51		
o-Terphenyl		84-15-1	93	%	70-135	05.12.18 04.51		





LT Environmental, Inc., Arvada, CO

Sample Id: SS06A @1' Lab Sample Id: 585760-006	Matrix: Soil Date Collected: 05.09.18 09.40	Date Received:05.11.18 10.55 Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ Analyst: ALJ	Date Prep: 05.15.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight
Seq Number: 3050168	Date Prep: 05.15.18 10.00	Dasis. Wet weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	05.16.18 03.29	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	05.16.18 03.29	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	05.16.18 03.29	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	05.16.18 03.29	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	05.16.18 03.29	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	05.16.18 03.29	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	05.16.18 03.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	05.16.18 03.29		
4-Bromofluorobenzene		460-00-4	94	%	70-130	05.16.18 03.29		





LT Environmental, Inc., Arvada, CO

Sample Id: SS07A @2' Lab Sample Id: 585760-007	Matrix: Date Colle	Soil cted: 05.09.18 09.45		Date Received:05. Sample Depth: 2 ft		5
Analytical Method: Inorganic Anions by EPA 3	00			Prep Method: E30)0P	
Tech: SCM Analyst: SCM	Date Prep:	05.14.18 15.30		% Moisture: Basis: We	t Weight	
Seq Number: 3050071					e	
Parameter Cas Nu	mber Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-00	-6 <4.96	4.96	mg/kg	05.14.18 17.20	U	1

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 05.11.	18 16.00	E	Basis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 05.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	05.12.18 05.18	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	05.12.18 05.18	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.12.18 05.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.12.18 05.18		
o-Terphenyl		84-15-1	95	%	70-135	05.12.18 05.18		





LT Environmental, Inc., Arvada, CO

Sample Id: SS07A @2' Lab Sample Id: 585760-007	Matrix: Soil Date Collected: 05.09.18 09.45	Date Received:05.11.18 10.55 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ Analyst: ALJ	Date Prep: 05.15.18 16.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight
Seq Number: 3050168	Duce riep. Concerto roiso	

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	05.16.18 03.50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	05.16.18 03.50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	05.16.18 03.50	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	05.16.18 03.50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	05.16.18 03.50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	05.16.18 03.50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	05.16.18 03.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	70-130	05.16.18 03.50		
1,4-Difluorobenzene		540-36-3	97	%	70-130	05.16.18 03.50		





LT Environmental, Inc., Arvada, CO

Sharpnose Federal #1

Sample Id: SS08A @2' Lab Sample Id: 585760-008	Matrix: Date Colle	Soil cted: 05.09.18 09.50		Date Received:05.1 Sample Depth: 2 ft		i
Analytical Method: Inorganic Anions by EPA Tech: SCM	A 300			Prep Method: E30 % Moisture:	00P	
Analyst: SCM	Date Prep:	05.14.18 15.30	,		t Weight	
Seq Number: 3050071						
Parameter Cas	Number Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887	-00-6 <4.99	4.99	mg/kg	05.14.18 17.26	U	1

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 05.11	18 16.00	E	Basis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 05.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	05.12.18 05.44	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	05.12.18 05.44	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.12.18 05.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.12.18 05.44		
o-Terphenyl		84-15-1	97	%	70-135	05.12.18 05.44		

.





LT Environmental, Inc., Arvada, CO

Sample Id: SS08A @2' Lab Sample Id: 585760-008	Matrix: Soil Date Collected: 05.09.18 09.50	Date Received:05.11.18 10.55 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst:ALJSeq Number:3050168	Date Prep: 05.15.18 16.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.16.18 04.11	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.16.18 04.11	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.16.18 04.11	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.16.18 04.11	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.16.18 04.11	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.16.18 04.11	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.16.18 04.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.16.18 04.11		
1,4-Difluorobenzene		540-36-3	99	%	70-130	05.16.18 04.11		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Ic	SS09A @1' l: 585760-009		Matrix: Date Colle	Soil cted: 05.09.18 10.00		Date Received:05. Sample Depth: 1 ft		5
Analytical Me Tech:	thod: Inorganic Anions SCM	by EPA 300				Prep Method: E30 % Moisture:)0P	
Analyst:	SCM		Date Prep:	05.14.18 15.30			t Weight	
Seq Number: Parameter	3050071	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	732	4.97	mg/kg	05.14.18 17.32	0	1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 05.11.	18 16.00	E	Basis: We	t Weight	
Seq Number: 3049896								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	05.12.18 06.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	05.12.18 06.10	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	05.12.18 06.10	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.12.18 06.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	05.12.18 06.10		
o-Terphenyl		84-15-1	93	%	70-135	05.12.18 06.10		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id	SS09A @1' d: 585760-009	Matrix: Date Collected	Soil 1: 05.09.18 10.00	Date Received Sample Depth	d:05.11.18 10.55 n: 1 ft
Analytical Me Tech:	ethod: BTEX by EPA 8021B ALJ			Prep Method: % Moisture:	SW5030B
Analyst: Seq Number:	ALJ 3050168	Date Prep:	05.15.18 16.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	05.16.18 04.33	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	05.16.18 04.33	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	05.16.18 04.33	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	05.16.18 04.33	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	05.16.18 04.33	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	05.16.18 04.33	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	05.16.18 04.33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.16.18 04.33		
1,4-Difluorobenzene		540-36-3	98	%	70-130	05.16.18 04.33		



Flagging Criteria



Page 69 of 106

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

Received by OCD: 3/20/2023 1:39:19 PM



LT Environmental, Inc.

Sharpnose Federal #1

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	OP	
Seq Number:	3050071			Matrix:	Solid				Date Pre	p: 05.1	4.18	
MB Sample Id:	7644694-1-BLK		LCS Sar	nple Id:	7644694-3	I-BKS		LCSI	D Sample	Id: 764	4694-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD]	RPD Limi	t Units	Analysis Date	Flag
Chloride	< 5.00	250	230	92	225	90	90-110	2	20	mg/kg	05.14.18 16:08	

Analytical Method:	Inorganic Anions by	y EPA 300						Pro	ep Method	1: E3	00P	
Seq Number:	3050071			Matrix:	Soil				Date Prep	p: 05.	14.18	
Parent Sample Id:	585760-002		MS Sar	nple Id:	585760-00	02 S		MSE	O Sample	Id: 585	5760-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD I	RPD Limit	Units	Analysis Date	Flag
Chloride	54.6	250	322	107	314	104	90-110	3	20	mg/kg	05.14.18 16:26	

Analytical Method:	Inorganic Anions by	y EPA 300						Prep M	Method:	E300P	•	
Seq Number:	3050071			Matrix:	Soil			Da	te Prep:	05.14.1	18	
Parent Sample Id:	585761-002		MS San	nple Id:	585761-00	02 S		MSD Sa	ample Id:	58576	1-002 SD	
Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD RPD	Limit II	nite	Analysis	
	Result	Amount	Result	%Rec	Result	%Rec	2	, viu 2 10 2		ints	Date	Flag

Analytical Method:	TPH by S	W8015 M	od						I	Prep Method	l: TXI	005P	
Seq Number:	3049896				Matrix:	Solid				Date Prep	p: 05.1	1.18	
MB Sample Id:	7644584-1	-BLK		LCS Sar	nple Id:	7644584-	1-BKS		LCS	SD Sample	Id: 764	4584-1-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)	<15.0	1000	956	96	1120	112	70-135	16	20	mg/kg	05.12.18 00:26	
Diesel Range Organics	(DRO)	<15.0	1000	1060	106	1180	118	70-135	11	20	mg/kg	05.12.18 00:26	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			limits	Units	Analysis Date	
1-Chlorooctane		110		1	05		122		7	0-135	%	05.12.18 00:26	
o-Terphenyl		114		1	00		117		7	0-135	%	05.12.18 00:26	

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

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.





QC Summary 585760

LT Environmental, Inc.

Sharpnose Federal #1

Analytical Method:	TPH by SV 3049896	W8015 M	od		Matrix:	Soil				Prep Method Date Prer		.005P 1.18	
Seq Number:										1			
Parent Sample Id:	585756-00	1		MS San	nple Id:	585756-00)1 S		Μ	SD Sample I	d: 585	/56-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	976	98	967	97	70-135	1	20	mg/kg	05.12.18 01:44	
Diesel Range Organics	(DRO)	<15.0	1000	1110	111	1100	110	70-135	1	20	mg/kg	05.12.18 01:44	
Surrogate					1S Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	06		104			70-135	%	05.12.18 01:44	
o-Terphenyl				1	01		99			70-135	%	05.12.18 01:44	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3050168 7644770-1-BLK	1B	LCS Sar	Matrix: nple Id:	Solid 7644770-	1-BKS			Prep Methe Date Pre SD Sample	ep: 05.1	5030B 5.18 4770-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.106	106	0.100	100	70-130	6	35	mg/kg	05.15.18 20:03	
Toluene	< 0.00201	0.100	0.102	102	0.0970	97	70-130	5	35	mg/kg	05.15.18 20:03	
Ethylbenzene	< 0.00201	0.100	0.105	105	0.101	101	70-130	4	35	mg/kg	05.15.18 20:03	
m,p-Xylenes	< 0.00402	0.201	0.219	109	0.212	106	70-130	3	35	mg/kg	05.15.18 20:03	
o-Xylene	< 0.00201	0.100	0.110	110	0.103	103	70-130	7	35	mg/kg	05.15.18 20:03	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	97		9	98		100			70-130	%	05.15.18 20:03	
4-Bromofluorobenzene	92		9	92		92			70-130	%	05.15.18 20:03	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3050168 585932-001	1B	MS San	Matrix: nple Id:)1 S			Prep Methoo Date Prej SD Sample	p: 05.1	5030B 5.18 932-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0804	81	0.0881	88	70-130	9	35	mg/kg	05.15.18 20:46	
Toluene	< 0.00200	0.0998	0.0706	71	0.0808	81	70-130	13	35	mg/kg	05.15.18 20:46	
Ethylbenzene	< 0.00200	0.0998	0.0577	58	0.0707	71	70-130	20	35	mg/kg	05.15.18 20:46	Х
m,p-Xylenes	< 0.00399	0.200	0.117	59	0.145	73	70-130	21	35	mg/kg	05.15.18 20:46	Х
o-Xylene	< 0.00200	0.0998	0.0605	61	0.0727	73	70-130	18	35	mg/kg	05.15.18 20:46	Х
Surrogate				1S Rec	MS Flag	MSD %Re		_	Limits	Units	Analysis Date	
1,4-Difluorobenzene			1	02		102		7	0-130	%	05.15.18 20:46	
4-Bromofluorobenzene			9	98		96		7	0-130	%	05.15.18 20:46	

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

.

LABORATORIES	Page 1 of		
Setting the Standard since 1990 Stafford,Texas (281-240-4200) Dallas Texas (214-902-0300)	San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251)	Phoenix, Arizona (480-355-0900)	0000)
	Www.xenco.com	Xenco Quote #	Xanco Job# 5 405760
		Analytical Information	
and: and:	Odfice Project Name/Number: Odfice Project Name/Number:	3003531397 X 805	W = Water S = Soli/Sed/Solid
O North "A" Street, Building I Un	1RP -3612 , 1	BT	GW =Ground Water DW = Drinking Water P = Product
r@lterv.com	5178 X	[aly	SW = Surface water SL = Sludge
Project Contact Adrian Baker	PO Number:)21), P (WI = Wipe
samplers s vanne	Collection Num	Number of preserved bottles	A = Air
No. Field ID / Point of Collection	Depth Date Time Matrix bottles	HNO3 H2SO4 NaOH NAHSO4 MEOH NONE BTEX TPH() ChID	Eiald Commonte
1 8502@ 1.5'	5-8-18 12:48 15 1	1	
2 550201			
3 00 00 1,5			
000	2, 19:30		
S	1, 04:40		
7 SS 67@ 2'	2, 1 3/12		
8 SS Ø 80 2'	2 1 9:50 1	XXXX	
9 5509@ 1' A	1 × 10:00 × 1	XXXX	
10 Turnaround Time (Business days)	Data Deliverable Information	lation	-
Same Day TAT	Level II Std QC	Level IV (Full Data Pkg /raw data)	Temp: J · (IR ID:R-8
Next Day EMERGENCY	Level III Std QC+ Forms	TRRP Level IV	
2 Day EMERGENCY Contract TAT	IT Level 3 (CLP Forms)	UST/RG-411	Corrected Temp: 1.9
3 Day EMERGENCY	TRRP Checklist		inip. 1
TAT Starts Day received by Lab, if received by 5:00 pm	sceived by 5:00 pm		FED-EX / UPS: Tracking #
Sampler Sola	S/10/18 13:40 Received By:	Date Time: 5-10-/53	30 Received BY: CAMMOR 5-11-18/165
Relinguished by:	Date Time: Received By:	Date Time:	Received By:
Relinquished by: 5	Date Time: Received By: 5	Custody Seal # Preserved where applicable	Relinquished by: Date Time: Received By: Custody Seal # Preserved where applicable On Leg Cooler Temp. Thermo. Corr. Factor 5

Received by OCD: 3/20/2023 1:39:19 PM . .

Released to Imaging: 3/20/2023 1:40:10 PM

Final 1.001

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Received by OCD: 3/20/2023 1:39:19 PM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/11/2018 10:55:00 AM Temperature Measuring device used : R8 Work Order #: 585760 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? 1.9 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinguished/ 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 Yes

#13 Samples properly preserved? #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: Januar Tal

Date: 05/11/2018

Checklist reviewed by: Jessica Warner

Jessica Kramer

Date: 05/11/2018

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Sharp Nose Federal #1

API 30-025-31397

13-JUL-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



13-JUL-18

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

Reference: XENCO Report No(s): **590701 Sharp Nose Federal #1** Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 590701. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 590701 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

fession promer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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







Sample Cross Reference 590701



LT Environmental, Inc., Arvada, CO

Sharp Nose Federal #1

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	06-26-18 10:45	4 ft	590701-001
S	06-26-18 12:00	2 ft	590701-002
S	06-26-18 12:05	2 ft	590701-003
S	06-26-18 12:10	2 ft	590701-004
S	06-26-18 12:15	2 ft	590701-005
S	06-26-18 11:00	4 ft	590701-006
S	06-26-18 11:05	4 ft	590701-007
S	06-26-18 11:10	4 ft	590701-008
S	06-26-18 11:15	4 ft	590701-009
	S S S S S S S S	S 06-26-18 10:45 S 06-26-18 12:00 S 06-26-18 12:05 S 06-26-18 12:10 S 06-26-18 12:15 S 06-26-18 12:15 S 06-26-18 11:00 S 06-26-18 11:05 S 06-26-18 11:05 S 06-26-18 11:10	S 06-26-18 10:45 4 ft S 06-26-18 12:00 2 ft S 06-26-18 12:05 2 ft S 06-26-18 12:10 2 ft S 06-26-18 12:15 2 ft S 06-26-18 12:15 2 ft S 06-26-18 11:00 4 ft S 06-26-18 11:05 4 ft S 06-26-18 11:05 4 ft

.



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Sharp Nose Federal #1

Project ID: *API 30-025-31397* Work Order Number(s): *590701*

ATORIES

Report Date: 13-JUL-18 Date Received: 06/28/2018

Sample receipt non conformances and comments:

NEW VERSION GENERATED 07/13/18. per client email, removed DB from samples 006-009 JKR

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3055548 BTEX by EPA 8021B

Lab Sample ID 590701-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 590701-001, -002, -003, -004, -005, -006, -007, -009 Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Outlier/s are due to possible matrix interference.

Batch: LBA-3055640 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id:API 30-025-31397Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 590701

LT Environmental, Inc., Arvada, CO Project Name: Sharp Nose Federal #1



Date Received in Lab: Thu Jun-28-18 10:10 am Report Date: 13-JUL-18 Project Manager: Jessica Kramer

	Lab Id:	590701-0	001	590701-0	002	590701-0	003	590701-	004	590701-0	005	590701-	006
	Field Id:	FS01@	4'	SS11 SS12			SS13		SS14		SW01		
Analysis Requested	Depth:	4- ft		2- ft 2-		2- ft		2- ft		2- ft		4- ft	
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-26-18	10:45	Jun-26-18	12:00	Jun-26-18	12:05	Jun-26-18	12:10	Jun-26-18 12:15		Jun-26-18 11:00	
BTEX by EPA 8021B	Extracted:	Jul-05-18 (Jul-05-18 08:00		08:00	Jul-05-18 (08:00	Jul-05-18	08:00	Jul-05-18 (08:00	Jul-05-18	08:00
	Analyzed:	Jul-05-18	Jul-05-18 10:10		10:28	Jul-05-18 1	1:24	Jul-05-18	11:06	Jul-05-18	11:42	Jul-05-18	12:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199
Toluene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199
Ethylbenzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199
m,p-Xylenes	<0.00398 0.003		0.00398	< 0.00399	0.00399	< 0.00401	0.00401	< 0.00402	0.00402	< 0.00404	0.00404	< 0.00398	0.00398
o-Xylene	ne <		0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199
Total Xylenes		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199
Total BTEX		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00199	0.00199
Inorganic Anions by EPA 300	Extracted:	Jul-02-18	14:30	Jul-02-18 14:30		Jul-02-18 14:30 Jul-02		Jul-02-18	14:30	Jul-02-18	14:30	Jul-02-18	14:30
	Analyzed:	Jul-02-18	21:45	Jul-02-18 2	21:50	Jul-02-18 2	21:56	Jul-02-18 22:01		Jul-02-18 22:17		Jul-02-18	22:23
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		256	4.97	68.0	5.00	49.2	4.95	125	4.99	193	5.00	218	4.99
TPH by SW8015 Mod	Extracted:	Jun-29-18	17:00	Jun-29-18	17:00	Jun-29-18	17:00	Jun-29-18	17:00	Jun-29-18	17:00	Jun-29-18	17:00
	Analyzed:	Jun-29-18	22:38	Jun-29-18	22:59	Jun-29-18 2	23:19	Jun-29-18	23:40	Jun-30-18	00:41	Jun-30-18	01:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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

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Jessica Kramer Project Assistant

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Project Id:API 30-025-31397Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 590701

LT Environmental, Inc., Arvada, CO Project Name: Sharp Nose Federal #1



Date Received in Lab: Thu Jun-28-18 10:10 am Report Date: 13-JUL-18 Project Manager: Jessica Kramer

	Lab Id:	590701-0	007	590701-0	008	590701-0)09		
Analysis Requested	Field Id:	SW02		SW03		SW04			
Analysis Kequesieu	Depth:	4- ft		4- ft		4- ft			
	Matrix:	SOIL	SOIL			SOIL			
	Sampled:	Jun-26-18	Jun-26-18 11:05		11:10	Jun-26-18	11:15		
BTEX by EPA 8021B	Extracted:	Jul-05-18	08:00	Jul-06-18 1	1:30	Jul-05-18 0	8:00		
	Analyzed:	Jul-05-18	12:19	Jul-06-18 1	3:57	Jul-05-18 1	2:53		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00198	0.00198	< 0.00201	0.00201	< 0.00201	0.00201		
Toluene		< 0.00198	0.00198	< 0.00201	0.00201	< 0.00201	0.00201		
Ethylbenzene		< 0.00198	0.00198	< 0.00201	0.00201	< 0.00201	0.00201		
m,p-Xylenes		< 0.00397	0.00397	< 0.00402	0.00402	< 0.00402	0.00402		
o-Xylene		< 0.00198	0.00198	< 0.00201	0.00201	< 0.00201	0.00201		
Total Xylenes		< 0.00198	0.00198	< 0.00201	0.00201	< 0.00201	0.00201		
Total BTEX		< 0.00198	0.00198	< 0.00201	0.00201	< 0.00201	0.00201		
Inorganic Anions by EPA 300	Extracted:	Jul-02-18	14:30	Jul-02-18 14:30		Jul-02-18 1	4:30		
	Analyzed:	Jul-02-18	22:39	Jul-02-18 2	2:44	Jul-02-18 22:50			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		256	5.00	107	5.00	267	4.98		
TPH by SW8015 Mod	Extracted:	Jun-29-18	17:00	Jun-29-18	17:00	Jun-29-18 1	7:00		
	Analyzed:	Jun-30-18	01:23	Jun-30-18 (01:43	Jun-30-18 (02:04		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0		

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

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Jessica Kramer Project Assistant

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LT Environmental, Inc., Arvada, CO

Sample Id: FS01@4'		Matrix:	Soil		Date Received:06.	28.18 10.1	0
Lab Sample Id: 590701-001		Date Collec	ted: 06.26.18 10.45		Sample Depth: 4 ft	t	
Analytical Method: Inorganic A	Anions by EPA 300				Prep Method: E3	00P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.02.18 14.30		Basis: We	t Weight	
Seq Number: 3055272							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	256	4.97	mg/kg	07.02.18 21.45		1

Analytical Method:TPH by SW801Tech:JUMAnalyst:JUMSeq Number:3055312	15 Mod	Date Pre	p: 06.29	.18 17.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.29.18 22.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.29.18 22.38	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.29.18 22.38	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.29.18 22.38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	06.29.18 22.38		
o-Terphenyl		84-15-1	107	%	70-135	06.29.18 22.38		





LT Environmental, Inc., Arvada, CO

Sample Id: FS01@4' Lab Sample Id: 590701-001	Matrix: Soil Date Collected: 06.26.18 10.45	Date Received:06.28.18 10.10 Sample Depth:4 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3055548	Date Prep: 07.05.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	07.05.18 10.10	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.05.18 10.10	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.05.18 10.10	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.05.18 10.10	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.05.18 10.10	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.05.18 10.10	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.05.18 10.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	93	%	70-130	07.05.18 10.10		
4-Bromofluorobenzene		460-00-4	77	%	70-130	07.05.18 10.10		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS11		Matrix:	Soil		Date Received:06.	28.18 10.10)
Lab Sample I	d: 590701-002		Date Collec	cted: 06.26.18 12.00		Sample Depth: 2 ft		
Analytical M	ethod: Inorganic Anions	s by EPA 300				Prep Method: E30	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.02.18 14.30		Basis: We	t Weight	
Seq Number:	3055272							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	68.0	5.00	mg/kg	07.02.18 21.50		1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: JUM					9	6 Moisture:		
Analyst: JUM		Date Pre	p: 06.29	.18 17.00	E	asis: We	t Weight	
Seq Number: 3055312								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.29.18 22.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.29.18 22.59	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.29.18 22.59	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.29.18 22.59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	06.29.18 22.59		
o-Terphenyl		84-15-1	98	%	70-135	06.29.18 22.59		





LT Environmental, Inc., Arvada, CO

Sample Id:SS11Lab Sample Id:590701-002	Matrix: Soil Date Collected: 06.26.18 12.00	Date Received:06.28.18 10.10 Sample Depth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3055548	Date Prep: 07.05.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.05.18 10.28	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.05.18 10.28	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.05.18 10.28	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	07.05.18 10.28	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.05.18 10.28	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.05.18 10.28	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.05.18 10.28	U	1
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	07.05.18 10.28		
4-Bromofluorobenzene		460-00-4	103	%	70-130	07.05.18 10.28		





LT Environmental, Inc., Arvada, CO

Sample Id: SS12		Matrix:	Soil		Date Received:06.	28.18 10.1	0
Lab Sample Id: 590701-003		Date Collec	cted: 06.26.18 12.05		Sample Depth: 2 f	t	
Analytical Method: Inorganic Ar	nions by EPA 300				Prep Method: E3	00P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.02.18 14.30		Basis: We	et Weight	
Seq Number: 3055272							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	49.2	4.95	mg/kg	07.02.18 21.56		1

Analytical Method: TPH by SW8013	5 Mod				P	Prep Method: TX	1005P	
Tech: JUM					9	6 Moisture:		
Analyst: JUM		Date Pre	p: 06.29	.18 17.00	E	Basis: We	et Weight	
Seq Number: 3055312								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.29.18 23.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.29.18 23.19	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.29.18 23.19	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.29.18 23.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	06.29.18 23.19		
o-Terphenyl		84-15-1	103	%	70-135	06.29.18 23.19		





LT Environmental, Inc., Arvada, CO

Sample Id:SS12Lab Sample Id:590701-003	Matrix: Soil Date Collected: 06.26.18 12.05	Date Received:06.28.18 10.10 Sample Depth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3055548	Date Prep: 07.05.18 08.00	Prep Method:SW5030B% Moisture:Basis:Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.05.18 11.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.05.18 11.24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.05.18 11.24	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	07.05.18 11.24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.05.18 11.24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.05.18 11.24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.05.18 11.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	85	%	70-130	07.05.18 11.24		
1,4-Difluorobenzene		540-36-3	104	%	70-130	07.05.18 11.24		





LT Environmental, Inc., Arvada, CO

Sample Id: SS13 Lab Sample Id: 590701-004		Matrix: Date Collec	Soil cted: 06.26.18 12.10		Date Received:0 Sample Depth: 2)
Analytical Method: Inorganic Anions b	y EPA 300				Prep Method: E	E300P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.02.18 14.30		Basis: V	Vet Weight	
Seq Number: 3055272							
Parameter	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Chloride	16887-00-6	125	4.99	mg/kg	07.02.18 22.01	1	1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: JUM					9	6 Moisture:		
Analyst: JUM		Date Pre	p: 06.29.	18 17.00	E	Basis: We	t Weight	
Seq Number: 3055312								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.29.18 23.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.29.18 23.40	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.29.18 23.40	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.29.18 23.40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	06.29.18 23.40		
o-Terphenyl		84-15-1	101	%	70-135	06.29.18 23.40		





LT Environmental, Inc., Arvada, CO

Sample Id:SS13Lab Sample Id:590701-004	Matrix: Soil Date Collected: 06.26.18 12.10	Date Received:06.28.18 10.10 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ Analyst: ALJ	Date Prep: 07.05.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight
Seq Number: 3055548		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	07.05.18 11.06	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.05.18 11.06	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.05.18 11.06	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.05.18 11.06	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.05.18 11.06	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.05.18 11.06	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.05.18 11.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	07.05.18 11.06		
1,4-Difluorobenzene		540-36-3	124	%	70-130	07.05.18 11.06		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS14		Matrix:	Soil cted: 06.26.18 12.15		Date Received:06		J
Lab Sample I	d: 590701-005		Date Colle	cted: 06.26.18 12.15		Sample Depth: 2	It	
Analytical Me	ethod: Inorganic Anions	s by EPA 300				Prep Method: E3	300P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.02.18 14.30		Basis: W	et Weight	
Seq Number:	3055272							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	193	5.00	mg/kg	07.02.18 22.17		1

Analytical Method: TPH by SW801 Tech: JUM Analyst: JUM Sea Number: 3055312	15 Mod	Date Pre	p: 06.29	18 17.00	Prep Method: TX1005P % Moisture: Basis: Wet Weight			
Seq Number: 3055312 Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.30.18 00.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.30.18 00.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.30.18 00.41	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.30.18 00.41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	06.30.18 00.41		
o-Terphenyl		84-15-1	96	%	70-135	06.30.18 00.41		





LT Environmental, Inc., Arvada, CO

Sample Id:SS14Lab Sample Id:590701-005	Matrix: Soil Date Collected: 06.26.18 12.15	Date Received:06.28.18 10.10 Sample Depth: 2 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3055548	Date Prep: 07.05.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	07.05.18 11.42	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	07.05.18 11.42	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	07.05.18 11.42	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	07.05.18 11.42	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	07.05.18 11.42	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	07.05.18 11.42	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	07.05.18 11.42	U	1
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	Recovery 92	%	70-130	07.05.18 11.42	0	
4-Bromofluorobenzene		460-00-4	92	%	70-130	07.05.18 11.42		





LT Environmental, Inc., Arvada, CO

Sample Id:	SW01		Matrix:	Soil		Date Received:06	5.28.18 10.10)
Lab Sample Io	l: 590701-006		Date Colle	cted: 06.26.18 11.00		ft		
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method: E3	300P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	07.02.18 14.30		Basis: W	et Weight	
Seq Number:	3055272							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	218	4.99	mg/kg	07.02.18 22.23		1

Analytical Method: TPH by SW801 Tech: JUM	5 Mod					rep Method: TX 6 Moisture:	1005P	
Analyst: JUM		Date Pre	p: 06.29	18 17.00	E	Basis: We	t Weight	
Seq Number: 3055312								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.30.18 01.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.30.18 01.02	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.30.18 01.02	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.30.18 01.02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	06.30.18 01.02		
o-Terphenyl		84-15-1	100	%	70-135	06.30.18 01.02		





LT Environmental, Inc., Arvada, CO

Sample Id:SW01Lab Sample Id:590701-006	Matrix: Soil Date Collected: 06.26.18 11.00	Date Received:06.28.18 10.10 Sample Depth: 4 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3055548	Date Prep: 07.05.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	07.05.18 12.01	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	07.05.18 12.01	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	07.05.18 12.01	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	07.05.18 12.01	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	07.05.18 12.01	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	07.05.18 12.01	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	07.05.18 12.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	70-130	07.05.18 12.01		
4-Bromofluorobenzene		460-00-4	88	%	70-130	07.05.18 12.01		





LT Environmental, Inc., Arvada, CO

Sample Id: SW02		Matrix:	Soil		Date Received:06	.28.18 10.1	0
Lab Sample Id: 590701-007		Date Collec	cted: 06.26.18 11.05		Sample Depth: 4 f	ť	
Analytical Method: Inorganic Anion	s by EPA 300				Prep Method: E3	00P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.02.18 14.30		Basis: We	et Weight	
Seq Number: 3055272							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	256	5.00	mg/kg	07.02.18 22.39		1

Analytical Method: TPH by SW802	15 Mod				F	Prep Method: TX	1005P	
Tech: JUM					9	6 Moisture:		
Analyst: JUM		Date Pre	p: 06.29	.18 17.00	E	Basis: We	t Weight	
Seq Number: 3055312								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.30.18 01.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.30.18 01.23	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.30.18 01.23	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.30.18 01.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	06.30.18 01.23		
o-Terphenyl		84-15-1	104	%	70-135	06.30.18 01.23		





LT Environmental, Inc., Arvada, CO

Sample Id:SW02Lab Sample Id:590701-007	Matrix: Soil Date Collected: 06.26.18 11.05	Date Received:06.28.18 10.10 Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ Analyst: ALJ	Date Prep: 07.05.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight
Seq Number: 3055548		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198		mg/kg	07.05.18 12.19	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	07.05.18 12.19	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	07.05.18 12.19	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	07.05.18 12.19	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	07.05.18 12.19	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	07.05.18 12.19	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	07.05.18 12.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	07.05.18 12.19		
1,4-Difluorobenzene		540-36-3	102	%	70-130	07.05.18 12.19		





LT Environmental, Inc., Arvada, CO

Sample Id: SW03		Matrix:	Soil		Date Received:06	5.28.18 10.1	C
Lab Sample Id: 590701-008		Date Collec	cted: 06.26.18 11.10		Sample Depth: 4	ft	
Analytical Method: Inorganic Anions	by EPA 300				Prep Method: E	300P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.02.18 14.30		Basis: W	et Weight	
Seq Number: 3055272							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	5.00	mg/kg	07.02.18 22.44		1

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: JUM					%	6 Moisture:		
Analyst: JUM		Date Pre	p: 06.29	18 17.00	В	Basis: We	t Weight	
Seq Number: 3055312								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.30.18 01.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.30.18 01.43	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.30.18 01.43	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.30.18 01.43	U	1
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	06.30.18 01.43		
o-Terphenyl		84-15-1	103	%	70-135	06.30.18 01.43		





LT Environmental, Inc., Arvada, CO

Sample Id:SW03Lab Sample Id:590701-008	Matrix: Soil Date Collected: 06.26.18 11.10	Date Received:06.28.18 10.10 Sample Depth:4 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3055640	Date Prep: 07.06.18 11.30	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	07.06.18 13.57	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.06.18 13.57	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.06.18 13.57	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.06.18 13.57	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.06.18 13.57	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.06.18 13.57	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.06.18 13.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	07.06.18 13.57		
1,4-Difluorobenzene		540-36-3	95	%	70-130	07.06.18 13.57		





LT Environmental, Inc., Arvada, CO

Sample Id: SW04		Matrix:	Soil		Date Received:06.	28.18 10.1	0
Lab Sample Id: 590701-009		Date Collec	ted: 06.26.18 11.15	Sample Depth: 4 ft			
Analytical Method: Inorganic A	nions by EPA 300				Prep Method: E30	00P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	07.02.18 14.30		Basis: We	t Weight	
Seq Number: 3055272							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	267	4.98	mg/kg	07.02.18 22.50		1

Analytical Method: TPH by SW801 Tech: JUM Analyst: JUM	5 Mod	Date Pre	p: 06.29	.18 17.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Seq Number: 3055312								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.30.18 02.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	06.30.18 02.04	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.30.18 02.04	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	06.30.18 02.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	06.30.18 02.04		
o-Terphenyl		84-15-1	99	%	70-135	06.30.18 02.04		

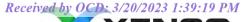




LT Environmental, Inc., Arvada, CO

Sample Id:SW04Lab Sample Id:590701-009	Matrix: Soil Date Collected: 06.26.18 11.15	Date Received:06.28.18 10.10 Sample Depth:4 ft
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJ	Date Prep: 07.05.18 08.00	Prep Method: SW5030B % Moisture: Basis: Wet Weight
Seq Number: 3055548		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	07.05.18 12.53	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	07.05.18 12.53	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	07.05.18 12.53	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	07.05.18 12.53	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	07.05.18 12.53	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	07.05.18 12.53	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	07.05.18 12.53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	07.05.18 12.53		
4-Bromofluorobenzene		460-00-4	112	%	70-130	07.05.18 12.53		



LABORATORIES

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.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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





LT Environmental, Inc.

Sharp Nose Federal #1

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3055272			Matrix:	Solid				Date Pre	p: 07.0	2.18	
MB Sample Id:	7657698-1-BLK		LCS Sar	nple Id:	7657698-	1-BKS		LCSI	O Sample	Id: 765	7698-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	< 5.00	250	246	98	244	98	90-110	1	20	mg/kg	07.02.18 20:35	

Analytical Method:	Inorganic Anions by	y EPA 300						Pre	ep Method	l: E30	00P	
Seq Number:	3055272			Matrix:	Soil				Date Prep	p: 07.0	02.18	
Parent Sample Id:	590700-003		MS Sar	nple Id:	590700-00	03 S		MSE	Sample	Id: 590	700-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD F	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Inorganic Anions b	y EPA 300						Pı	ep Metho	od: E30	OP 90	
Seq Number:	3055272			Matrix:	Soil				Date Pre	ep: 07.0	2.18	
Parent Sample Id:	590701-004		MS Sar	nple Id:	590701-00)4 S		MS	D Sample	e Id: 5907	701-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	125	250	368	97	372	99	90-110	1	20	mg/kg	07.02.18 22:07	

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3055312 7657730-1		od	LCS Sar	Matrix: nple Id:		1-BKS			Prep Method Date Prep SD Sample I	o: 06.2	1005P 29.18 7730-1-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	oons (GRO)	<15.0	1000	1070	107	1220	122	70-135	13	20	mg/kg	06.29.18 19:12	
Diesel Range Organics	(DRO)	<15.0	1000	1150	115	1290	129	70-135	11	20	mg/kg	06.29.18 19:12	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re	-		Limits	Units	Analysis Date	
1-Chlorooctane		99		1	19		81		7	0-135	%	06.29.18 19:12	
o-Terphenyl		105		1	28		74		7	0-135	%	06.29.18 19:12	

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

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec





QC Summary 590701

LT Environmental, Inc.

Sharp Nose Federal #1

Analytical Method: Seq Number:	lod		Prep Method:TX1005PMatrix:SoilDate Prep:06.29.18										
Parent Sample Id:	590699-00)1		MS Sar	nple Id:	590699-0	01 S		M	SD Sample l	ld: 590	699-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	1090	109	1070	107	70-135	2	20	mg/kg	06.29.18 20:15	
Diesel Range Organics	(DRO)	<15.0	1000	1230	123	1200	120	70-135	2	20	mg/kg	06.29.18 20:15	
Surrogate					IS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	02		118		7	0-135	%	06.29.18 20:15	
o-Terphenyl				1	05		103		7	0-135	%	06.29.18 20:15	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3055548 7657860-1-BLK	Matrix: nple Id:	Solid 7657860-	1-BKS			Prep Method Date Prep SD Sample	p: 07.0	5030B 5.18 7860-1-BSD			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0921	91	0.0988	98	70-130	7	35	mg/kg	07.05.18 08:01	
Toluene	< 0.00201	0.101	0.0979	97	0.102	101	70-130	4	35	mg/kg	07.05.18 08:01	
Ethylbenzene	< 0.00201	0.101	0.0946	94	0.101	100	70-130	7	35	mg/kg	07.05.18 08:01	
m,p-Xylenes	< 0.00402	0.201	0.203	101	0.211	104	70-130	4	35	mg/kg	07.05.18 08:01	
o-Xylene	< 0.00201	0.101	0.0951	94	0.0960	95	70-130	1	35	mg/kg	07.05.18 08:01	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	89		8	32		108			70-130	%	07.05.18 08:01	
4-Bromofluorobenzene	74		7	77		95			70-130	%	07.05.18 08:01	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3055640 7657902-1-BLK	1B	Matrix: nple Id:	Solid 7657902-	1-BKS			Prep Method Date Prep CSD Sample	p: 07.0	5030B 06.18 7902-1-BSD		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0927	93	0.0849	84	70-130	9	35	mg/kg	07.06.18 10:53	
Toluene	< 0.00200	0.100	0.0996	100	0.0891	88	70-130	11	35	mg/kg	07.06.18 10:53	
Ethylbenzene	< 0.00200	0.100	0.0951	95	0.0868	86	70-130	9	35	mg/kg	07.06.18 10:53	
m,p-Xylenes	< 0.00401	0.200	0.195	98	0.182	90	70-130	7	35	mg/kg	07.06.18 10:53	
o-Xylene	< 0.00200	0.100	0.0930	93	0.0845	84	70-130	10	35	mg/kg	07.06.18 10:53	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	107		ç	94		86			70-130	%	07.06.18 10:53	
4-Bromofluorobenzene	88		8	33		77			70-130	%	07.06.18 10:53	

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

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LT Environmental, Inc.

Sharp Nose Federal #1

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3055548 590701-001	1B] MS San	Matrix: nple Id:)1 S		Prep Method: SW5030B Date Prep: 07.05.18 MSD Sample Id: 590701-001 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag	
Benzene	< 0.00201	0.100	0.0782	78	0.109	109	70-130	33	35	mg/kg	07.05.18 08:38		
Toluene	< 0.00201	0.100	0.0812	81	0.116	116	70-130	35	35	mg/kg	07.05.18 08:38		
Ethylbenzene	< 0.00201	0.100	0.0763	76	0.112	112	70-130	38	35	mg/kg	07.05.18 08:38	F	
m,p-Xylenes	< 0.00402	0.201	0.161	80	0.230	115	70-130	35	35	mg/kg	07.05.18 08:38		
o-Xylene	< 0.00201	0.100	0.0793	79	0.102	102	70-130	25	35	mg/kg	07.05.18 08:38		
Surrogate				1S Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date		
1,4-Difluorobenzene			12	27		93		7	0-130	%	07.05.18 08:38		
4-Bromofluorobenzene			1	14		79		7	0-130	%	07.05.18 08:38		

Analytical Method:	BTEX by EPA 802	1B						P	rep Metho	d: SW:	5030B	
Seq Number:	3055640]	Matrix:	Soil				Date Pre	p: 07.0	6.18	
Parent Sample Id:	590757-001		MS San	nple Id:	590757-00	01 S		MS	D Sample	Id: 590'	757-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	t Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0869	87	0.0796	79	70-130	9	35	mg/kg	07.06.18 11:27	
Toluene	< 0.00201	0.100	0.0862	86	0.0787	78	70-130	9	35	mg/kg	07.06.18 11:27	
Ethylbenzene	< 0.00201	0.100	0.0824	82	0.0765	76	70-130	7	35	mg/kg	07.06.18 11:27	
m,p-Xylenes	< 0.00402	0.201	0.174	87	0.157	78	70-130	10	35	mg/kg	07.06.18 11:27	
o-Xylene	< 0.00201	0.100	0.0745	75	0.0760	75	70-130	2	35	mg/kg	07.06.18 11:27	
Surrogate				IS Rec	MS Flag	MSD %Ree			limits	Units	Analysis Date	
1,4-Difluorobenzene			10	02		94		7	0-130	%	07.06.18 11:27	
4-Bromofluorobenzene			8	34		80		7	0-130	%	07.06.18 11:27	

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

.

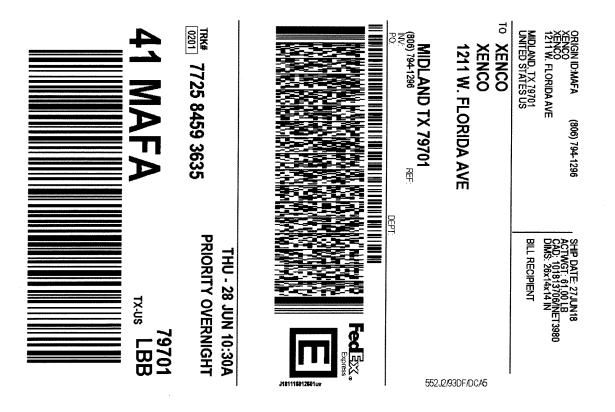
Setting the Standard since 1990 Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300) Client / Reporting Information Company Name / Branch: LT Environmental, Inc Permian Office Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 Email: Phone No: Addrian Baker Addrian Baker	0 on Office , Unit #103, Midland, TX 79705 Phone No: (432) 704-5178	San Antonio, Texas (Midland, Texas (432 Project Name/Number: Project Location:	s (210-509-3334) 12-704-5251) 12-704-5251) 12-704-5251) 12-704-525-31 9-4771	sq7 Sq7 Sq7		EPA \$020 EPA \$015 FIPA \$015 Analytical Information x	ion ()
No.	Field ID / Point of Collection	Date	Time Matrix bottles -CI	NaOH/Zn Acetate HNO3 H2SO4 NaOH NaOH	VARISO4 VEOH VONE BTE	Chi	
+ FSOI@4	935	6.26	1			X	
	2		200 00 00 00				
↓ SISS			1210				
SS			1215				
a Reserve	SW01 4						
155	h EOMS						
9 85519	Smoy 4.	4	1115 V		*		
Turnaround Time (Business days) Same Day TAT	: days) 📈 5 Day TAT		Data Deliverable Information		Level IV (Full Data Pkg /raw data)	Nates:	
Next Day EMERGENCY			Level III Std QC+ Forms		AI IS	、	
3 Day EMERGENCY	Contract TAT		Level 3 (CLP Forms)	UST/RG -411	411		
TAT Starts Day received t	TAT Starts Day received by Lab, if received by 5:00 pm SAMPLE CUSTODY MUST	T BE DOCUMENTED BE	erived by 5:00 pm	HANGE POSSESSION INCLU		FED-EX / UPS: Tracking #	UPS: Tra
Relinquished by Sampler.	Date, T Date	$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}$	Concerned The	Ref/Wiched By		Date Time: 103 06/27/20 Date Time:	Received By:
Relinquerfied by:	Date	0/27 /5:30 3 Date Time: 5	Served By:	1010 Custody Seal #		Preserved where applicable	4
Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors, it assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.	nd relinquishment of samples constitutes a vuch loses are due to circumstances beyond under a fully executed client contract.	alid purchase order from the control of Xenco. A m	client company to Xenco, its affi inhimum charge of \$75 will be ap	iates and subcontractors. It ass plied to each project. Xenco's li	signs standard terms and co iability will be limited to the c	nditions of service. Xenco w ost of samples. Any sample	_ ~1

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CHAIN OF CUSTODY



After printing this label:

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

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

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





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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Date/ Time Received: 06/28/2018 10:10:00 AM Work Order #: 590701

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

Temperature Measuring device used : R8

Sample Receipt Checklis	t	Comments
#1 *Temperature of cooler(s)?	3.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 06/28/2018

Checklist reviewed by: Jessign Whamer

Jessica Kramer

Date: 06/28/2018

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	198885
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
bhall	None	3/20/2023

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Action 198885