LT Environmental, Inc. North A Street, Building 1, #103



3300 North A Street, Building 1, #103 Midland, Texas 79705 T 432.704.5178 / F 432.704.5179

May 7, 2018

Ms. Crystal Weaver New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request PLU-CVX-JV-PB #001H Remediation Permit Number 2RP-2800 Eddy County, New Mexico

Dear Ms. Weaver:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO) is pleased to present the following letter report detailing soil sampling activities at the PLU-CVX-JV-PB #001H well pad (Site) in Unit O, Section 1, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the investigation was to assess impacts to soil after the water leg on the heater treater failed. The water leg failure caused a release of approximately 5 barrels (bbls) of crude oil and 26 bbls of produced water on February 3, 2015. Most of the spill was contained in the zero permeability containment surrounding the process vessels; however, approximately 6 bbls of produced water impacted approximately 2,685 square feet of the caliche pad outside the containment. The free-standing liquids were removed with a vacuum truck; approximately 5 bbls of oil and 20 bbls of produced water were recovered..

The previous operator reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on February 9, 2015, and was assigned Remediation Permit Number (RP) 2RP-2800 (Attachment 1). Although the impact occurred while the well was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. The sampling was conducted to assess current site conditions and determine if additional remediation is necessary. Based on the results of the sampling event as described herein, XTO is requesting no further action for this release.

BACKGROUND

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is C 02249, located approximately 1.84 miles southeast of the Site, with a depth to groundwater of 292 feet bgs and a total depth of 300 feet bgs. The closest surface water to the Site is an arroyo located approximately 900 feet southeast of the Site. Based on these criteria, the NMOCD site ranking for remediation action levels is 10, and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 1,000 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.

SOIL SAMPLING

Soil sample locations were based on visual inspection of the Site and the information provided on the C-141 Form. LTE made an effort to collect representative samples around the reported release source and areas potentially affected by the release. LTE collected five soil samples on February 15, 2018, as depicted on Figure 2. No visual or olfactory evidence of the release was observed at the Site.

To eliminate effects from weathering and natural degradation of contaminants at the ground surface, subsurface samples were collected from each sample location at roughly 0.5 feet bgs by hand auger. The soil samples were collected directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis and immediately placed on ice. The samples were submitted to Hall Environmental Analysis Laboratory, in Albuquerque, New Mexico, for analysis of BTEX by United States Environmental Protection Agency (USEPA) 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) by USEPA Method 8015M, and chloride by USEPA Method 300.0.

ANALYTICAL RESULTS

Laboratory analytical results for all five soil samples indicated BTEX concentrations were below laboratory reporting limits. Laboratory analytical results for TPH indicated no detected concentrations exceeded the NMOCD remediation action levels for the Site, with values ranging from below the laboratory reporting limit in soil samples SS02, SS04, and SS05 to 10.0 mg/kg in soil sample SS01. Chloride concentrations ranged from 84 mg/kg in soil sample SS05 to 110 mg/kg in soil samples SS01 and SS02. Laboratory analytical results are presented on Figure 2 and in Table 1, and the complete laboratory analytical report is included as Attachment 2.

CONCLUSIONS

Laboratory analytical results for soil samples collected within the former release indicate impact to soil, as defined by concentrations of BTEX, TPH, and chloride, do not exceed NMOCD site-specific standards. Initial response efforts and natural degradation have remediated this Site, and XTO requests no further action for this release.





Weaver, C. Page 3

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.

Adrian Baker Project Geologist

Ashley L. ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO Mike Bratcher, NMOCD Jim Amos, BLM Shelly Tucker, BLM

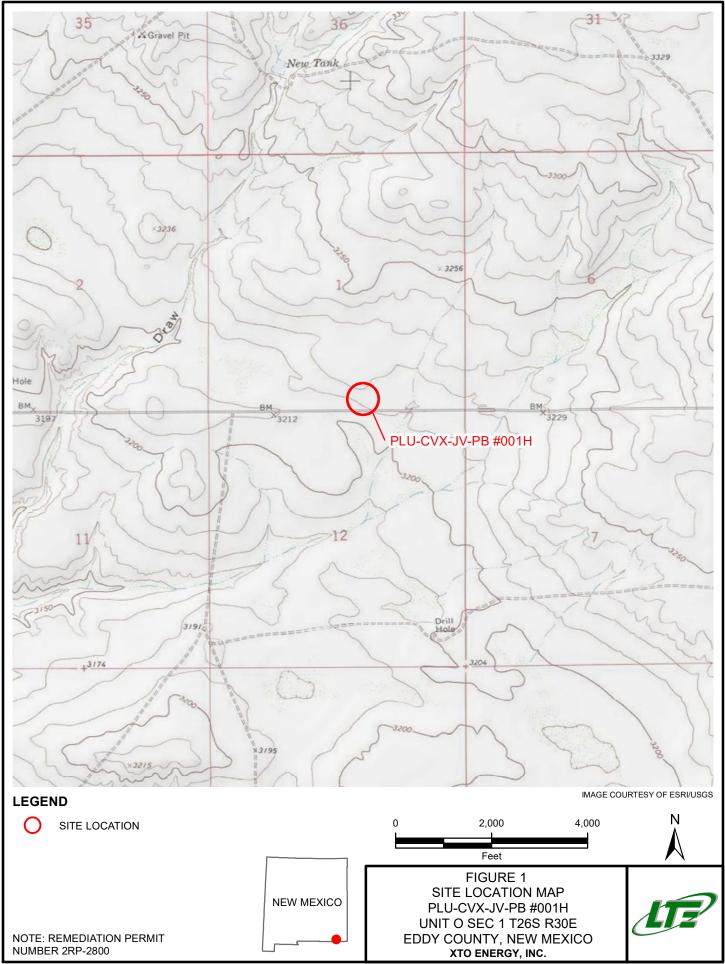
Attachments:

Figure 1Site Location MapFigure 2Soil Sample LocationsTable 1Soil Analytical ResultsAttachment 1Initial/Final NMOCD Form C-141Attachment 2Laboratory Analytical Report



FIGURES









P:\XTO Energy\GIS\MXD\012918056_PLU CVX JV #001H\012918056_FIG02_SITE_2018.mxd

TABLE



TABLE 1 SOIL ANALYTICAL RESULTS PLU-CVX-JV-PB #001H REMEDIATION PERMIT NUMBER 2RP-2800 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	2/15/2018	< 0.025	< 0.049	< 0.049	< 0.099	< 0.099	<4.9	10	<49	10	110
SS02	0.5	2/15/2018	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	<5.0	<9.7	<49	<49	110
SS03	0.5	2/15/2018	< 0.024	< 0.048	< 0.048	< 0.095	< 0.095	<4.8	9.7	<49	9.7	100
SS04	0.5	2/15/2018	< 0.024	< 0.047	< 0.047	< 0.094	< 0.094	<4.7	<9.9	<50	<50	91
SS05	0.5	2/15/2018	< 0.023	< 0.047	< 0.047	< 0.094	< 0.094	<4.7	<9.2	<46	<46	84
NMOCD	Remediation Act	tion Levels	10	NE	NE	NE	50	NE	NE	NE	1,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory detection limit



ATTACHMENT 1

INITIAL/FINAL NMOCD FORM C-141



1625 N. French Dr., Hobbs, NM 88240	e of New Mexico erals and Natural Resources Revised August 8, 2011
811 S. First St., Artesia, NM 88210	FEB 0 9 2013
1000 Rio Brazos Road, Aztec, NM 8/410	nservation Division Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC
1220 C. St. Francis D., Conta Fr. NMA 97505	outh St. Francis Dr. RECEIVED ta Fe, NM 87505
	tion and Corrective Action
AAB1504136865	
Name of Company: BOPCO, L.P. 200737	OPERATOR Initial Report Final Report Final Repo
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU-CVX-JV-PB #001H	Facility Type: Exploration and Production
Surface Owner: Federal Mineral Own	ner: Federal API No. 30-015-37030
LOCAT	ION OF RELEASE
	North/South LineFeet from the 1980East/West Line EastCounty: Eddy
Latitude_N 32.06	<u>5962 Longitude W 103.832944</u>
	RE OF RELEASE
Type of Release: Crude oil and produced water	Volume of Release: 5 bbls oil and 26 bbls produced water Volume Recovered: 5 bbls of oil and 20 bbls of pw from 0 perm Cont.
Source of Release: Heater-treater	Date and Hour of Occurrence:Date and Hour of Discovery: 2/3/15 at2/3/15 time unknownapproximately 11:00 a.m.
Was Immediate Notice Given?	If YES, To Whom? Mike Bratcher, Heather Patterson, Jim Amos (e-mail)
By Whom? Bradley Blevins	Date and Hour: 2/3/15 at 1:56 p.m.
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
🗌 Yes 🛛 No	
If a Watercourse was Impacted, Describe Fully.*	
Describe Cause of Problem and Remedial Action Taken.* The water leg on the heater-treater failed. The vessel was by-passed u	intil the problem could be corrected
The water region me nearer reason ranea. The resset was by passed a	and the problem could be contected.
Describe Area Affected and Cleanup Action Taken.*	
The majority of the spill was contained in the 0-perm containment that	at was built around the process vessels. Due to the pressure approximately 6 bbls of
produced water impacted about 2685 sq.ft. of caliche pad. The fluid in The spill area will be cleaned up in accordance to the NMOCD and B	
I hereby certify that the information given above is true and complete	to the best of my knowledge and understand that pursuant to NMOCD rules and
	use notifications and perform corrective actions for releases which may endanger by the NMOCD marked as "Final Report" does not relieve the operator of liability
should their operations have failed to adequately investigate and reme	diate contamination that pose a threat to ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	ort does not relieve the operator of responsibility for compliance with any other
	OIL CONSERVATION DIVISION
Signature: 1 Gry Danie	
Printed Name: Tony Savoie	Approved by Environmental Specialist:
Title: Waste Management and Remediation Specialist	Approval Date: 2/10/15 Expiration Date: N/A
E-mail Address: tasavoie@basspet.com	Conditions of Approval:
- 7/0 / 0	mediation per O.C.D. Rules & Guidelines
	BMIT REMEDIATION PROPOSAL NO
	ATER THAN: 3/10/16 2RP-2800

.

۰.,

.

Oil Conservation Division 1220 South St. Francis Dr.

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

1220 S St From	in Dr. Sant	E NIM OTEO	-			St. Flanc							
1220 S. St. Fran	icis Dr., Sant	a re, inivî 87303	,	Sa	anta Fe	e, NM 875	505						
			Rele	ease Notific	cation	and Co	orrective A	ctio	1				
						OPERA	ГOR		🗌 Initia	l Report	F:	inal Report	
	Name of Company XTO Energy						Contact: Kyle Littrell						
		ne Street, Ca	,	M 88220			No: 432-221-733						
Facility Nat	Facility Name: PLU-CVX-JV-PB #001H						e: Exploration a	and Pro	oduction				
Surface Owner Federal Mineral Owner					Owner:	Federal			API No.	30-015-3	7030		
						N OF RE	LEASE						
Unit Letter O	Section 1	Township 26S	Range 30E	Feet from the 400		South Line South	Feet from the 1980		West Line East	County Eddy			
		Latitude_	32	2.065962	Loi	ngitude	103.832944	4	NA	D83			
				NAT	TURE	OF REL	EASE						
Type of Rele	ase Crude	oil and produ	ced water				Release 5bbls oil Release 5bbls oil	and		ecovered 5 from 0 per		il and 20	
Source of Re	lease: Heat	ter Treater					Iour of Occurrenc	e		Hour of Dis		/3/15 at	
Was Immedi	ate Notice (Tiven?				2/13/15 tin If YES, To	ne unknown Whom?		approxima	ately 11:00	am.		
was minical			Yes 🗌] No 🗌 Not R	equired		cher, Heather Patt	erson, (OCD; Jim A	mos, BLM	via email		
By Whom? B	Brad Blevin	s				Date and H	Hour: 2/3/15 at 1::	56 pm					
Was a Water		ched?	_				olume Impacting t	he Wat	tercourse:				
			Yes 🖂] No		Not Applic	cable						
If a Watercou	urse was Im	pacted, Descr	ibe Fully.*	k									
		em and Reme											
					ed until t	he problem c	could be corrected	•					
		and Cleanup A was contained			t that wa	s built aroun	d the process vess	els. Du	e to the pres	sure approx	imately 6	bbls of	
							t was recovered, t						
ITE as llasta	1 6		T-h	15 2018 4				14:	114- 6-	- 41 6		- : 4: 4	
							tions. Laboratory a Site. XTO requests					s indicated	
							_					-	
							knowledge and u nd perform correc						
Ç	•	•	-				arked as "Final R				•	U	
should their of	operations h	nave failed to a	adequately	investigate and r	remediate	e contaminati	on that pose a three	eat to g	round water	, surface wa	ter, huma	n health	
				tance of a C-141	report do	pes not reliev	e the operator of i	respons	sibility for co	mpliance w	ith any of	ther	
lederal, state	, or local la	ws and/or regu	mations.										
	OIL CONSERVATION DIVISION												
Signatura													
Signature:	o. Kula Litt	rall				Approved by	Environmental S	pecialis	st: Braa	ford	Billin	igs	
Printed Name	e. Kyle Litt							T	(0	
Title: SH&E	Coordinato	or			1	Approval Da	te: 03/19/202	20	Expiration I	Date:			
E-mail Adde	ace Kula I	ittrall@vtoon	eray com			Conditions	f Approval:						
E-mail Address: Kyle_Littrell@xtoenergy.com Conditions of Approval: Attached													

5/7/18 * Attach Additional Sheets If Necessary

Date:

Phone: 432-221-7331

ATTACHMENT 2

LABORATORY ANALYTICAL REPORT





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 26, 2018

Kyle Littlrell LTE 3300 N A St Bldg 1 #103 Midland, TX 79705 TEL: (432) 704-5178 FAX

RE: PLU CVX JV PB 001H

OrderNo.: 1802A06

Dear Kyle Littlrell:

Hall Environmental Analysis Laboratory received 5 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,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

CLIENT: LTE		Client Sample ID: SS01							
Project: PLU CVX JV PB 001H	Collection Date: 2/15/2018 5:40:00 PM								
Lab ID: 1802A06-001	Matrix:	SOIL	Received E	Received Date: 2/17/2018 10:00:00 AM					
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst: TOM				
Diesel Range Organics (DRO)	10	9.8	mg/Kg	1	2/21/2018 9:43:30 AM				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/21/2018 9:43:30 AM				
Surr: DNOP	85.4	70-130	%Rec	1	2/21/2018 9:43:30 AM				
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/21/2018 9:50:30 AM				
Surr: BFB	91.0	15-316	%Rec	1	2/21/2018 9:50:30 AM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.025	mg/Kg	1	2/21/2018 9:50:30 AM				
Toluene	ND	0.049	mg/Kg	1	2/21/2018 9:50:30 AM				
Ethylbenzene	ND	0.049	mg/Kg	1	2/21/2018 9:50:30 AM				
Euryidenzene	ND	0.049	mg/Kg	I	2/21/2010				

0.099

80-120

30

mg/Kg

%Rec

mg/Kg

1

1

20

2/21/2018 9:50:30 AM

2/21/2018 9:50:30 AM

2/23/2018 1:47:19 AM

Analyst: CJS

ND

86.5

110

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 1 of 9
	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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Project: PLU CVX JV PB 001H

Client Sample ID: SS02 Collection Date: 2/15/2018 5:45:00 PM DIL Received Date: 2/17/2018 10:00:00 AM

Lab ID: 1802A06-002	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 RAM	NGE ORGANICS	3			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/21/2018 11:05:31 AM		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/21/2018 11:05:31 AM		
Surr: DNOP	84.3	70-130	%Rec	1	2/21/2018 11:05:31 AM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/21/2018 11:01:42 AM		
Surr: BFB	84.5	15-316	%Rec	1	2/21/2018 11:01:42 AM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.025	mg/Kg	1	2/21/2018 11:01:42 AM		
Toluene	ND	0.050	mg/Kg	1	2/21/2018 11:01:42 AM		
Ethylbenzene	ND	0.050	mg/Kg	1	2/21/2018 11:01:42 AM		
Xylenes, Total	ND	0.10	mg/Kg	1	2/21/2018 11:01:42 AM		
Surr: 4-Bromofluorobenzene	77.3	80-120	S %Rec	1	2/21/2018 11:01:42 AM		
EPA METHOD 300.0: ANIONS					Analyst: CJS		
Chloride	110	30	mg/Kg	20	2/23/2018 2:24:33 AM		

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 9
	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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Project: PLU CVX JV PB 001H

Client Sample ID: SS03 Collection Date: 2/15/2018 5:50:00 PM

Lab ID: 1802A06-003	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 RAI	NGE ORGANICS	5			Analyst: TOM		
Diesel Range Organics (DRO)	9.7	9.7	mg/Kg	1	2/21/2018 11:33:10 AM		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/21/2018 11:33:10 AM		
Surr: DNOP	84.9	70-130	%Rec	1	2/21/2018 11:33:10 AM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/21/2018 12:13:11 PM		
Surr: BFB	90.0	15-316	%Rec	1	2/21/2018 12:13:11 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	2/21/2018 12:13:11 PM		
Toluene	ND	0.048	mg/Kg	1	2/21/2018 12:13:11 PM		
Ethylbenzene	ND	0.048	mg/Kg	1	2/21/2018 12:13:11 PM		
Xylenes, Total	ND	0.095	mg/Kg	1	2/21/2018 12:13:11 PM		
Surr: 4-Bromofluorobenzene	85.8	80-120	%Rec	1	2/21/2018 12:13:11 PM		
EPA METHOD 300.0: ANIONS					Analyst: CJS		
Chloride	100	30	mg/Kg	20	2/23/2018 2:36:57 AM		
	100	30	mg/Kg	20	-		

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 9
	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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Project: PLU CVX JV PB 001H

Client Sample ID: SS04 Collection Date: 2/15/2018 5:55:00 PM

Matrix:	SOIL	Received D	Received Date: 2/17/2018 10:00:00 AM		
Result	PQL Qu	al Units	DF	Date Analyzed	
E ORGANICS	6			Analyst: TOM	
ND	9.9	mg/Kg	1	2/21/2018 12:00:34 PM	
ND	50	mg/Kg	1	2/21/2018 12:00:34 PM	
84.9	70-130	%Rec	1	2/21/2018 12:00:34 PM	
GE				Analyst: NSB	
ND	4.7	mg/Kg	1	2/21/2018 12:36:57 PM	
86.6	15-316	%Rec	1	2/21/2018 12:36:57 PM	
				Analyst: NSB	
ND	0.024	mg/Kg	1	2/21/2018 12:36:57 PM	
ND	0.047	mg/Kg	1	2/21/2018 12:36:57 PM	
ND	0.047	mg/Kg	1	2/21/2018 12:36:57 PM	
ND	0.094	mg/Kg	1	2/21/2018 12:36:57 PM	
82.3	80-120	%Rec	1	2/21/2018 12:36:57 PM	
				Analyst: CJS	
91	30	mg/Kg	20	2/23/2018 2:49:22 AM	
	Result SE ORGANICS ND 84.9 GE ND 86.6 ND ND ND ND ND 82.3	ND 9.9 ND 50 84.9 70-130 GE ND 4.7 86.6 15-316 ND 0.024 ND 0.047 ND 0.094 82.3 80-120	Result PQL Qual Units SE ORGANICS 9.9 mg/Kg ND 50 mg/Kg ND 50 mg/Kg 84.9 70-130 %Rec GE	Result PQL Qual Units DF SE ORGANICS ND 9.9 mg/Kg 1 ND 50 mg/Kg 1 ND 50 mg/Kg 1 84.9 70-130 %Rec 1 GE 1 ND 4.7 mg/Kg 1 86.6 15-316 %Rec 1 ND 0.024 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.094 mg/Kg 1 ND 0.094 mg/Kg 1 82.3 80-120 %Rec 1	

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 9
	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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Project: PLU CVX JV PB 001H

Client Sample ID: SS05 Collection Date: 2/15/2018 6:00:00 PM

Lab ID: 1802A06-005	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 RAM	IGE ORGANICS	6			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/21/2018 12:28:21 PM		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/21/2018 12:28:21 PM		
Surr: DNOP	83.8	70-130	%Rec	1	2/21/2018 12:28:21 PM		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/21/2018 1:00:37 PM		
Surr: BFB	89.2	15-316	%Rec	1	2/21/2018 1:00:37 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.023	mg/Kg	1	2/21/2018 1:00:37 PM		
Toluene	ND	0.047	mg/Kg	1	2/21/2018 1:00:37 PM		
Ethylbenzene	ND	0.047	mg/Kg	1	2/21/2018 1:00:37 PM		
Xylenes, Total	ND	0.094	mg/Kg	1	2/21/2018 1:00:37 PM		
Surr: 4-Bromofluorobenzene	84.2	80-120	%Rec	1	2/21/2018 1:00:37 PM		
EPA METHOD 300.0: ANIONS					Analyst: CJS		
Chloride	84	30	mg/Kg	20	2/23/2018 3:01:47 AM		

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 5 of 9
	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

Client:

Project:

LTE PLU CVX JV PB 001H

Sample ID MB-36684	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	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			
Chloride Sample ID LCS-36684	ND 1.5 SampType: Ics	TestCode: EPA Method	300.0: Anions	
		TestCode: EPA Method RunNo: 49353	300.0: Anions	
Sample ID LCS-36684	SampType: Ics		300.0: Anions Units: mg/Kg	
Sample ID LCS-36684 Client ID: LCSS	SampType: Ics Batch ID: 36684 Analysis Date: 2/23/2018	RunNo: 49353		RPDLimit Qual

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 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: **1802A06** 26-Feb-18

Client:	LTE
Project:	PLU CVX JV PB 001H

Sample ID 1802A06-001AM	S SampT	ype: MS	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SS01	Batch	n ID: 36	618	R	RunNo: 4	9270		-	-	
Prep Date: 2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 1	590092	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.3	46.60	10.24	89.8	55.8	125			
Surr: DNOP	4.1		4.660		87.4	70	130			
Sample ID 1802A06-001AM	SD SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SS01	Batch	n ID: 36	618	R	RunNo: 4	9270				
Prep Date: 2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 1	590093	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.61	10.24	88.6	55.8	125	5.54	20	
Surr: DNOP	4.2		5.061		83.3	70	130	0	0	
Sample ID LCS-36618	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 36	618	R	RunNo: 4	9270				
Prep Date: 2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 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	SampT	ype: M	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 36	618	R	RunNo: 4	9270				
Prep Date: 2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 1	590097	Units: mg/k	٢g		
Analista	Desult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result	FQL			/01110		3	,		Quui
Diesel Range Organics (DRO)	ND	10	OF IC Value		701120		5			Quai
•			10.00		91.2	70	130			Quui

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 7 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: **1802A06** 26-Feb-18

Client: Project:	LTE PLU CV2	X JV PB 0	01H								
Sample ID	MB-36607	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 36	607	R	unNo: 4	9303				
Prep Date:	2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 1	590999	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 860	5.0	1000		86.4	15	316			
Sample ID	LCS-36607	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	е	
Client ID:	LCSS	Batch	ID: 36	607	R	RunNo: 4	9303				
Prep Date:	2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 1	591000	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	25	5.0	25.00	0	98.7	75.9	131			
Surr: BFB		1100		1000		107	15	316			
Sample ID	1802A06-002AMS	SampT	ype: M	S	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	е	
Client ID:	SS02	Batch	ID: 36	607	R	anNo: 4	9303				
Prep Date:	2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 1	591003	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	26	5.0	24.80	0	104	77.8	128			
Surr: BFB		1100		992.1		107	15	316			
Sample ID	1802A06-002AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	е	
Client ID:	SS02	Batch	ID: 36	607	R	unNo: 4	9303				
Prep Date:	2/20/2018	Analysis D	ate: 2/	/21/2018	S	SeqNo: 1	591004	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	e Organics (GRO)	26	4.8	23.95	0	108	77.8	128	0.531	20	
Surr: BFB		1100		957.9		112	15	316	0	0	

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 9

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1802A06 26-Feb-18

Client: Project: LTE PLU CVX JV PB 001H

Sample ID MB-36607	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles						
Client ID: PBS	Batc	h ID: 36	607	RunNo: 49303										
Prep Date: 2/20/2018	Analysis E	Date: 2/	21/2018	S	SeqNo: 1	591037	Units: mg/K	ģ						
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-Bromofluorobenzene	0.83		1.000		82.8	80	120							
Sample ID LCS-36607	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles						
Client ID: LCSS	Batc	h ID: 36	607	F	RunNo: 4	9303								
Prep Date: 2/20/2018	Analysis D	Date: 2/	21/2018	5	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							
Ethylbenzene	0.96	0.050	1.000	0	95.7	80.7	127							
Xylenes, Total	2.9	0.10	3.000	0	95.2	81.6	129							
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	80	120							
Sample ID 1802A06-001AN	IS Samp	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Volat	iles						
	•													
Client ID: SS01	Batc	h ID: 36	607	F	RunNo: 4	9303								
Client ID: SS01 Prep Date: 2/20/2018	Batch Analysis [RunNo: 4 SeqNo: 1		Units: mg/K	g						
			21/2018		SeqNo: 1		Units: mg/K HighLimit	g %RPD	RPDLimit	Qual				
Prep Date: 2/20/2018	Analysis [Date: 2/	21/2018	S	SeqNo: 1	591041	-	-	RPDLimit	Qual S				
Prep Date: 2/20/2018 Analyte	Analysis I Result	Date: 2/ PQL	21/2018 SPK value	SPK Ref Val	SeqNo: 1 %REC	591041 LowLimit	HighLimit	-	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene	Analysis I Result 0.72	Date: 2/ PQL 0.024	21/2018 SPK value 0.9625	SPK Ref Val	SeqNo: 1 %REC 75.3	591041 LowLimit 80.9	HighLimit 132	-	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene Toluene	Analysis E Result 0.72 0.82	Date: 2/ PQL 0.024 0.048	21/2018 SPK value 0.9625 0.9625	SPK Ref Val 0 0	SeqNo: 1 %REC 75.3 85.2	591041 LowLimit 80.9 79.8	HighLimit 132 136	-	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene	Analysis E Result 0.72 0.82 0.89	Date: 2/ PQL 0.024 0.048 0.048	21/2018 SPK value 0.9625 0.9625 0.9625	SPK Ref Val 0 0 0	SeqNo: 1 %REC 75.3 85.2 92.9	591041 LowLimit 80.9 79.8 79.4	HighLimit 132 136 140	-	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Analysis I Result 0.72 0.82 0.89 2.6 0.86	Date: 2/ PQL 0.024 0.048 0.048	21/2018 SPK value 0.9625 0.9625 0.9625 2.887 0.9625	SPK Ref Val 0 0 0 0	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3	591041 LowLimit 80.9 79.8 79.4 78.5 80	HighLimit 132 136 140 142	%RPD	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Analysis I <u>Result</u> 0.72 0.82 0.89 2.6 0.86 ISD Samp ¹	Date: 2/ PQL 0.024 0.048 0.048 0.096	21/2018 SPK value 0.9625 0.9625 0.9625 2.887 0.9625	SPK Ref Val 0 0 0 0 0 Tes	SeqNo: 1 <u>%REC</u> 75.3 85.2 92.9 91.6 89.3	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method	HighLimit 132 136 140 142 120	%RPD	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1802A06-001AN	Analysis I <u>Result</u> 0.72 0.82 0.89 2.6 0.86 ISD Samp ¹	Date: 2/ PQL 0.024 0.048 0.096 Type: MS h ID: 36	21/2018 SPK value 0.9625 0.9625 2.887 0.9625 5D 607	SPK Ref Val 0 0 0 0 0 Tes F	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3 tCode: El	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method 9303	HighLimit 132 136 140 142 120	%RPD	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1802A06-001AM Client ID: SS01	Analysis I <u>Result</u> 0.72 0.82 0.89 2.6 0.86 ISD Samp ^T Batc	Date: 2/ PQL 0.024 0.048 0.096 Type: MS h ID: 36	21/2018 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 5D 607 21/2018	SPK Ref Val 0 0 0 0 0 Tes F	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3 tCode: El &unNo: 4 SeqNo: 1	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method 9303	HighLimit 132 136 140 142 120 8021B: Volat	%RPD	RPDLimit					
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1802A06-001AN Client ID: SS01 Prep Date: 2/20/2018	Analysis I Result 0.72 0.82 0.89 2.6 0.86 ISD SampT Batc Analysis I	Date: 2/ PQL 0.024 0.048 0.048 0.096 Type: MS h ID: 36 Date: 2/	21/2018 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 5D 607 21/2018	SPK Ref Val 0 0 0 0 0 Tes F	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3 tCode: El &unNo: 4 SeqNo: 1	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method 9303 591042	HighLimit 132 136 140 142 120 8021B: Volat Units: mg/K	- %RPD		S				
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Sur: 4-Bromofluorobenzene Sample ID 1802A06-001AN Client ID: SS01 Prep Date: 2/20/2018 Analyte	Analysis I Result 0.72 0.82 0.89 2.6 0.86 ISD Samp Batcl Analysis I Result	Date: 2/ PQL 0.024 0.048 0.048 0.096 Type: MS h ID: 36 Date: 2/ PQL	21/2018 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 5D 607 21/2018 SPK value	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3 tCode: El RunNo: 4 SeqNo: 1 %REC	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method 9303 591042 LowLimit	HighLimit 132 136 140 142 120 8021B: Volat Units: mg/K HighLimit	illes %RPD	RPDLimit	S Qual				
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1802A06-001AN Client ID: SS01 Prep Date: 2/20/2018 Analyte Benzene	Analysis I <u>Result</u> 0.72 0.82 0.89 2.6 0.86 ISD Samp ^T Batc Analysis I <u>Result</u> 0.78	Date: 2/ PQL 0.024 0.048 0.096 Type: MS h ID: 36 Date: 2/ PQL 0.024	21/2018 SPK value 0.9625 0.9625 2.887 0.9625 5D 607 21/2018 SPK value 0.9756	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3 tCode: El RunNo: 4 SeqNo: 1 %REC 79.7	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method 9303 591042 LowLimit 80.9	HighLimit 132 136 140 142 120 8021B: Volat Units: mg/K HighLimit 132	.iles %RPD 59 %RPD 7.08	RPDLimit 20	S Qual				
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1802A06-001AN Client ID: SS01 Prep Date: 2/20/2018 Analyte Benzene Toluene	Analysis I <u>Result</u> 0.72 0.82 0.89 2.6 0.86 ISD SampT Batcl Analysis I <u>Result</u> 0.78 0.85	Date: 2/ PQL 0.024 0.048 0.096 Fype: MS h ID: 36 Date: 2/ PQL 0.024 0.049	21/2018 SPK value 0.9625 0.9625 2.887 0.9625 5D 607 21/2018 SPK value 0.9756 0.9756	SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0 0	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3 tCode: El RunNo: 4 SeqNo: 1 %REC 79.7 87.2	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method 9303 591042 LowLimit 80.9 79.8	HighLimit 132 136 140 142 120 8021B: Volat Units: mg/K HighLimit 132 136	%RPD iiles ig %RPD 7.08 3.72	RPDLimit 20 20	S Qual				
Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1802A06-001AN Client ID: SS01 Prep Date: 2/20/2018 Analyte Benzene Toluene Ethylbenzene	Analysis I <u>Result</u> 0.72 0.82 0.89 2.6 0.86 ISD Samp ^T Batc Analysis I <u>Result</u> 0.78 0.85 0.93	Date: 2/ PQL 0.024 0.048 0.096 Fype: MS h ID: 36 Date: 2/ PQL 0.024 0.049 0.049 0.049	21/2018 SPK value 0.9625 0.9625 2.887 0.9625 2.887 0.9625 5D 607 21/2018 SPK value 0.9756 0.9756 0.9756	SPK Ref Val 0 0 0 0 0 0 5 7 es 5 SPK Ref Val 0 0 0 0 0	SeqNo: 1 %REC 75.3 85.2 92.9 91.6 89.3 tCode: El SeqNo: 1 %REC 79.7 87.2 95.1	591041 LowLimit 80.9 79.8 79.4 78.5 80 PA Method 9303 591042 LowLimit 80.9 79.8 79.8 79.4	HighLimit 132 136 140 142 120 8021B: Volat Units: mg/K HighLimit 132 136 140	%RPD %RPD 5 9 %RPD 7.08 3.72 3.63	RPDLimit 20 20 20	S Qual				

Qualifiers:

- 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
- 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
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 9 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-3-	nmental Analysis Lab 4901 Haw, Albuquerque, NM 15-3975 FAX: 505-34 www.hallenvironmen	kins NE 187109 Sa 15-4107	mple Log-In C	heck List
Client Name: LTE MIDLAND	Work Order N	lumber: 1802A06		RcptNo:	1
Received By: Ashley Gallegos Completed By: Ashley Gallegos Reviewed By: AQ 02[19]	2/17/2018 10:00 2/19/2018 2:30: 18	02 DU	Nd by.	SRC 02/19	โเช
Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered?		Yes 🔽 Courier	No 🗌	Not Present	
Log In 3. Was an attempt made to cool the sample	s?	Yes 🔽	No 🗔		
Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
Sample(s) in proper container(s)?		Yes 🖌	No 🗌		
Sufficient sample volume for indicated test		Yes 🔽	No 🗌		
Are samples (except VOA and ONG) prope	rly preserved?	Yes 🔽	No 🗍		
3. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗔	
OA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
0. Were any sample containers received brok	en?	Yes	No 🗹	# of preserved	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🔽	No 🗆	bottles checked for pH:	
2. Are matrices correctly identified on Chain of	Custody?	Yes 🔽	No 🗆	Adjusted?	2 unless noted)
3. Is it clear what analyses were requested?		Yes 🔽	No 🗆		
 Were all holding times able to be met? (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 M	
Person Notified:	Date	[
By Whom:	Via:	🗌 eMail 🔲 Pi	none 🗌 Fax	In Person	
Regarding: Client Instructions:	Contraction of the second second				
5. Additional remarks:					
Cooler Information	al Intact Seal No	Seal Date 5	Signed By		

	AL AL								(N	or)	səlddu8 1iA									1					
	HALL ENVIKONMENTAL ANALYSTS LABORATORY		4901 Hawkins NE - Albuquerque, NM 87109	20				(1.	002			Chlorid	\times)		-	>									
	NA	Com	8 WN	Fax 505-345-4107	st	_			_	(A)		OV) 80828 Ime2) 0728			_	_		_								
Ì	¥ ª	www.hallenvironmental.com	due,	05-34	Analysis Request	-	s,8:	Dd a	2808	/ 5	_	oliteag 1808	-		_		-	-	P		-	\vdash	-	-	330	
	S Ľ	L Luo	Iquer	ax 5(sis R	_						D, A) snoinA	-	-	-	-	-	-					+		T	
	ΞX	envi	Abu	ű	naly			-		1	slete	M 8 ARCRA 8 Me							1						- ü	
		v.hal	Ч	975	A				(۲	₩	ot F	AN9) 0168							1						510	00
1		~~~~	kins 1	505-345-3975								EDB (Wetho													30-015-37 030	289-2800
			Hawl	505-3			**					http://wethouse				_				1						à
	8		1001	Tel.			5	-	2			TPH Metho ontem H9T	X	-	_	_	D	-	-				-		marks: AP1 :	8
8		Ĩ	4			1. Carlos 1.				-	1.1.1.1	TEX + MT					>		-	-	$\left \right\rangle$		\vdash	-	Remarks: AP1	N
	19		-							Sir.		P. S. Harrison				-	-	-	2		F '		\vdash	-		
			PB # 001H		0	9	rell		±266-045-10£ 5.	E No	940.1= 2.0	HEAL No.	100-	-002	-003	-00-	500-						2		2/16/18 1530	Date Time
Time:	C Rush	2015	CVX JV		30-015-37030	15233	Kyle Littrell		samuy burns	K Yes		Preservative Type	cool	-			>									
Turn-Around Time:	X Standard	Project Name:	PLU C	Project #:	30-01	Project Manager:	XT0-		Sampler:	On Ice:	Sample Temperature: I.	Container Type and #	1-402.	1		_	>	1	/						Receipt by	Received by:
Chain-of-Custody Record		Permian	J. A St. BILg 1, #103	PF	432-704-5178	Abaker @Itenv.com		Level 4 (Full Validation)				Sample Request ID	loss	S502	SS03	SSOH	\$05S								dby:	L L L
of-Cu	16	Perm	Mailing Address3300 N.	XT Au	132-7	Abaker				□ Other	PDE	Matrix	S	_			>								Relinbuished by:	Relinquished by:
hain-	1		Address	Midlaug	¥	· Fax#:	Package:	dard	tation:	ЧЪ	(Type)	Time	OH EI	3H45	1750	1755	1800								Time: (530	Time:
0	Client:		Mailing		Phone #:	email or Fax#:	QA/QC Package:	A Standard	Accreditation:		C EDD (Type)	Date	2-15	_	_		A						2		Date: Time: 2-16-16 (530	Date: