Received by OCD: 8/20/2024 8:27:09 AM	Page 1 of 1
District II Energy Minera	of New Mexico Form C-141 rals and Natural Resources Revised October 10, 2003
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 So	a Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
	tion and Corrective Action
Name of Company BOPCO, L.P. 2607.37	OPERATOR Initial Report Final Repo Contact Tony Savoie Initial Report Initial Report Initial Report
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-556-8730
Facility Name: Golden 8 Federal Battery #1	Facility Type E&P
Surface Owner Federal Mineral Owner	ner Federal Lease No.
	ION OF RELEASE orth/South Line Feet from the East/West Line County
Unit LetterSectionTownshipRangeFeet from theNoK821S29E	orth/South Line Feet from the East/West Line County Eddy
_	352 Longitude W 104.008223
	RE OF RELEASE
Type of Release: Crude Oil	Volume of Release: 310 Bbls Volume Recovered: 290 Crude oil
Source of Release: 500 bbl tank overflow	Date and Hour of Occurrence Date and Hour of Discovery
Was Immediate Notice Given?	2/16/11 hour not known 2/16/11 10:00 a.m. If YES, To Whom? NMOCD emergency reporting. Left message with details.
Yes No Not Requir	
By Whom? Tony Savoie	Date and Hour 2/16/11 1:30 p.m.
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
☐ Yes ⊠ No	TRECEIVED
If a Watercourse was Impacted, Describe Fully.*	If YES, Volume Impacting the Watercourse. RECEIVED MAR 02 2011 NMOCD ARTESIA
	Oil product tank overflowed due to a heater-treater malfunction. The heater-treater
pasture land outside the containment measuring approximately 400 sq reported to the NMOCD on 10/6/10. The oil saturated soil outside the of crude oil was recovered from inside the containment. The area inside The Site remediation for the crude oil spill will follow the NMOCD gg I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relead public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and reme	he earthen tank containment measuring approximately 14,100 sq. ft. and an area of q. ft. The area outside the containment had been affected by a previous flow line spill e containment was removed by Basin Env. using a hydro-vac. Approximately 290 bbls ide the containment was covered with soil to absorb small areas of free product. guidelines for leaks and spills. to the best of my knowledge and understand that pursuant to NMOCD rules and ase notifications and perform corrective actions for releases which may endanger by the NMOCD marked as "Final Report" does not relieve the operator of liability ediate contamination that pose a threat to ground water, surface water, human health ort does not relieve the operator of responsibility for compliance with any other
	OIL CONSERVATION DIVISION
Signature: 1 ong Damo	Approved by District Supervisor, J. Brancuer
Printed Name: Tony Savoie	//
Title: Waste Mgmt.& Remediation Specialist	Approval Date: 3/7/// Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval: Attached
Date: 3/3/11 Phone:432-556-8730	Remediation per OCD Rules &
* Attach Additional Sheets If Necessary	Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 4/7/11

•

From:	Weaver, Crystal, EMNRD
To:	"Ruth, Amy"; Bratcher, Mike, EMNRD; Tucker, Shelly; Jim Amos
Cc:	Sanders, Toady; McSpadden, Wes; Foust, Bryan; Littrell, Kyle
Subject:	RE: Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)
Date:	Monday, March 5, 2018 3:01:00 PM
Attachments:	image001.png
	1. 4601 - COAs and signed C-141 Initial.pdf
	C-141 Initial for 2RP-521.pdf
	C-141 Initial for 2RP-633.pdf
	C-141 Initial for 2RP-2082.pdf
	1.Initial C-141 for 2RP-2439.pdf
	1.Initial C-141 for 2RP-3612.pdf
	3.Initial C-141- 2RP-4017.pdf

RE: XTO * Golden 8 Federal Battery #1 * 30-015-26931 * 2RP-4601

Amy,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). <u>The OCD tracking number for this event is 2RP-4601, please refer to this tracking number on any and all submissions sent in to the OCD.</u> Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one had a due date of 3/2/18 and that has passed.

Please note: This API number has had quite a few spills in the past that are recorded in our system. Some of these case numbers are pretty old starting with the oldest one 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612 and 2RP-4017. I attached all of the Initial C-141s above for you all to reference. Could you all provide a plan of action on what XTO plans to do regarding this location by no later than 3/23/18.

Thank you,

Crystal Weaver

Environmental Specialist OCD – Artesia District II 811 S. 1st Street Artesia, NM 88210 Office: 575-748-1283 ext. 101 Cell: 575-840-5963 Fax: 575-748-9720

From: Ruth, Amy [mailto:Amy_Ruth@xtoenergy.com]
Sent: Friday, February 2, 2018 9:49 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD
<Crystal.Weaver@state.nm.us>; Tucker, Shelly <stucker@blm.gov>; Jim Amos <jamos@blm.gov>
Cc: Sanders, Toady <Toady_Sanders@xtoenergy.com>; McSpadden, Wes

<Wes_McSpadden@xtoenergy.com>; Foust, Bryan <Bryan_Foust@xtoenergy.com>; Littrell, Kyle <Kyle_Littrell@xtoenergy.com> **Subject:** Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Morning,

Please find attached the initial form C-141 detailing the accidental release of fluids and associated fire at the referenced facility. Thank you and contact us any time with questions or concerns.

Respectfully,

Amy C. Ruth

Delaware Basin Division Environmental Coordinator 3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | 0: 575.689.3380



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From: Littrell, Kyle
Sent: Thursday, January 18, 2018 2:03 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc: Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
Subject: Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

Kyle Littrell EH&S Coordinator XTO Energy Inc. Delaware Division Phone:(432)-221-7331 | Mobile:(970)-317-1867 kyle_littrell@xtoenergy.com

An ExxonMobil Subsidiary

Received by OCD: 8/20/2024 8:27:09 AM

Bratcher, Mike, EMNRD

From:	Ashley Ager <aager@ltenv.com></aager@ltenv.com>
Sent:	Friday, March 23, 2018 4:56 PM
То:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD
Cc:	stucker@blm.gov; Adrian Baker; Littrell, Kyle
Subject:	Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017,
	2RP-4601
Attachments:	Proposed Work Plan Golden 8 Federal CTB.PDF

Crystal,

Please find attached a work plan for addressing historic and recent releases at the Golden 8 Federal Central Tank Battery. The report includes preliminary results from initial surface sampling and proposes additional sampling and remediation work.

The work plan covers the following releases at the location: 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Please let me know if you have any questions and have a nice weekend.

Ashley

Ashley Ager, M.S., P.G. Senior Geologist/Vice President of Regional Offices



LT Environmental, Inc. 848 East 2nd Avenue Durango, Colorado 81301 (970) 385-1096 office (970) 946-1093 mobile www.ltenv.com

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Please consider the environment before printing this e-mail.



COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.

3300 North A Street Building 1, Suite 103 Midland, Texas 79705 432-704-5178

March 22, 2018

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

RE: Proposed Work Plan Golden 8 Federal Central Tank Battery 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601 XTO Energy, Inc. Eddy County, New Mexico

Dear Ms. Weaver:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), proposes the following work plan to investigate impacted soil at the Golden 8 Federal Central Tank Battery (Site) in response to multiple historic releases and one recent release of crude oil and produced water. All releases were reported to the New Mexico Oil Conservation Division (NMOCD) on multiple Release Notification and Corrective Action Forms C-141s dating from June 14, 2010 through November 26, 2017. The historic releases (2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017) occurred while the Site was owned by a former operator but were never closed; the more recent release (2RP-4601) occurred after XTO assumed operation of the Site. This work plan is being submitted in response to the conditions of approval from the NMOCD documented on the C-141 for 2RP-4601. However, LTE had already begun investigating historical impact to soil. As such, LTE is presenting the results of preliminary sampling of both historic and new releases in this report. LTE proposes to address all releases concurrently with this work plan that includes additional delineation and subsequent remediation by excavation.

BACKGROUND

The Site is located in northeast quarter of the southwest quarter of Section 8 within Township 21 South and Range 29 East in Eddy County, New Mexico (Figure 1). Depth to groundwater at the Site is estimated to be greater than 200 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is CP 00516, located approximately 1.41 miles west-southwest of the Site with a depth to groundwater of 205 feet and total depth of 275 feet. The closest surface water to the Site is a seasonal playa lake located approximately 4,366 feet to the southeast of the Site. Based on these criteria, the New Mexico Oil Conservation Division (NMOCD) site ranking for remediation action levels is a 0 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 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 range (±10%) of background concentrations.

The releases affected areas on and off the well pad. Five of the releases occurred at the tank battery where most of the fluids were contained in an earthern berm. A release at the heater treater was contained in a lined containment. The most recent release was the result of a fire at the flare that caused a mist to settle over the pasture off site. As reported on the C-141s, all standing fluids were recovered during initial response activities. The releases and the areas they impacted are summarized as follows:



Weaver, C. Page 2

Release Permit Number	Date of Release	Oil Released (bbls)	Produced Water Released (bbls)	Description of Impacted Area
2RP-521	6/14/2010	90	0	Inside tank battery containment
2RP-633	2/16/2011	310	0	Inside tank battery containment and approximately 400 ft ² of pasture outside the tank battery
2RP-2082	11/25/2013	6	15	Inside tank battery containment
2RP-2439	8/12/2014	3	38	Inside tank battery containment
2RP-3612	2/1/2016	30	0	Approximately 3,060 ft^2 of the well pad at the heater treater and approximately 600 ft^2 of pasture east of the tank battery
2RP-4017	11/26/2016	32	0	Approximately 3,168 ft^2 of the pad near the 2-phase vessel and mist over the pasture east of the well pad
2RP-4601	1/18/2018	<1	0	Mist over approximately 2,600 ft ² of pasture south of the we pad

Notes: bbls - barrels $ft^2 - square fer$

ft² – square feet

PRELIMINARY SOIL SAMPLING

LTE collected a total of 16 soil samples from the Site on the following dates: March 3, 2018, March 6, 2018, and March 9, 2018. LTE has depicted the sample locations on Figure 2, Figure 3, and Figure 4. The sample groups represented on the different figures are based on the location of the source (e.g. samples for releases associated with the tank battery are on Figure 2). During the site visits, LTE confirmed the release footprint based on visual observations of soil staining or used the associated C-141 information to approximate the affected area. To investigate potential impact to soil, LTE collected samples at the surface of the recent release and from approximately 6 inches below ground surface by hand auger at the historic releases. All surface and subsurface soil samples were submitted to a certified laboratory for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021, TPH – gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) by EPA Method 8015, and chloride by EPA Method 300.1.

Laboratory analytical results indicate three of sixteen samples contained concentrations of contaminants that exceeded NMOCD regulatory standards. One sample west of the tank battery, and one sample in the pasture south of the well pad contained TPH concentrations exceeding NMOCD standards. A sample southwest of the tank battery collected just beneath the ground surface contained chloride concentrations exceeding NMOCD regulatory standards, but an additional sample collected at 6 inches bgs did not contain detectable chloride concentrations. Laboratory analytical results are presented on Figures 2, 3, and 4 and on Tables 1, 2, and 3. The complete laboratory analytical reports are attached.

ADDITIONAL DELINEATION

Additional investigation of soil impact will be conducted. LTE proposes to address 2RP-633, 2RP-3612 and 2RP-4017, which involved releases extending east of the well pad, by advancing boreholes via hand auger or pot holing in the locations identified on Figure 2. Continuous soil samples will be logged and



Weaver, C. Page 3

described using the Unified Soil Classification System (USCS) to delineate potential hydrocarbon and saltwater impacts. The intervals from immediately beneath the ground surface and then every five feet thereafter will be screened for volatile aromatic hydrocarbons as well as any soil that is stained or has a hydrocarbon odor using a photo-ionization detector (PID). Soil samples with the highest PID result or from the bottom of each borehole will be submitted to a certified laboratory for analysis of BTEX, TPH –GRO, DRO, and MRO by EPA Method 8015, and chloride by EPA Method 300.1. Additional soil borings will be advanced radially in approximately 50-foot intervals from any soil boring demonstrating significant evidence of impacts. The soil borings will be advanced until field screening suggests the extent of hydrocarbon and chloride soil impact is below NMOCD standards based on site ranking, and laboratory analysis will be used to confirm field results. LTE will require Bureau of Land Management (BLM) clearance to disrupt the off-pad area.

On the well pad, LTE will collect surface samples from inside containments where possible as shown on Figure 2. Additionally, LTE will advance soil borings at the locations on the well pad where concentrations of TPH and/or chloride were previously identified exceeding NMOCD standards to delineate vertical extent of observed impact to soil (Figure 2 and Figure 3). LTE will follow the same sampling methods previously described.

PROPOSED REMEDIATION

Because initial sampling results suggest impact is restricted to certain areas, LTE proposes using heavy equipment in the two soil sampling areas on the well pad that are noncompliant with NMOCD standards to excavate impacted soil. As soil is removed, LTE personnel will conduct field screening of organic vapor concentrations with a photoionization detector (PID) according to New Mexico Oil Conservation Division (NMOCD) headspace techniques and chloride using Hach® chloride test strips to determine if additional excavation is required. Once field screening results indicate impacted soil had been removed, LTE will collect confirmation soil samples of the sidewalls and floor of any excavation. Soil samples will be collected to cover approximately every 50 square feet of floor of the excavation and every 50 linear feet of sidewalls. Soil samples will be stored on ice and delivered to a certified laboratory under strict chain-of-custody procedures. Since benzene and BTEX results in preliminary samples were below detection limits, no BTEX will be analyzed in the confirmation samples. The soil samples will be analyzed for TPH – GRO, DRO, and MRO by EPA Method 8015B and chloride by EPA Method 300.1.

For the area affected by misting south of the well pad, the sample collected from 0.5 feet bgs serves as the confirmation soil sample. Impacted soil above 0.5 feet bgs will be removed and no additional samples will be collected in that area. Once soil delineation sampling is complete east of the well pad, LTE will address that off-pad area via excavation as previously described.

Soil excavation will address the full lateral extent of impact encountered. LTE will attempt to excavate the full vertical extent of impact; however, should impact extend beyond four feet bgs, LTE will provide NMOCD with a status update and request to install a 20-mil impermeable liner over residual impacted soil. LTE will include construction specifications in that request, which will be specific to existing site conditions. All excavated soil will be transported to Lea Land (NMOCD Permit # WM01) for disposal. Upon receipt of samples documenting compliance with NMOCD standards, LTE will backfill the on-site excavated area with new caliche. Should backfill be required in the off-site area, LTE will apply soil that meets blends with the native surroundings.



Weaver, C. Page 4

REPORTING

XTO will prepare a report documenting all field activities and describing results for submittal to the NMOCD. The report will include site maps and a table of laboratory analytical results. A report will be submitted within two weeks of receipt of laboratory analytical reports. Should this work plan need revision based on results of additional delineation or site conditions during remediation work, LTE will submit by email preliminary results to NMOCD with proposed changes and/or requests for modifications.

SCHEDULE

XTO will complete the investigation within four weeks of the date of approval of this work plan by NMOCD.

LTE appreciates the opportunity to provide this proposed work plan to the NMOCD. If you have any questions or comments regarding this plan, do not hesitate to contact me at (970) 385-1096 or via email at aager@ltenv.com or Kyle Littrell at XTO at (970) 317-1867 or Kyle_Littrell@xtoenergy.com.

Sincerely, LT ENVIRONMENTAL, INC.

Adrian Baker Project Geologist

ashley L. ager

Ashley U. Ager, P.G. Senior Geologist

Attachments:

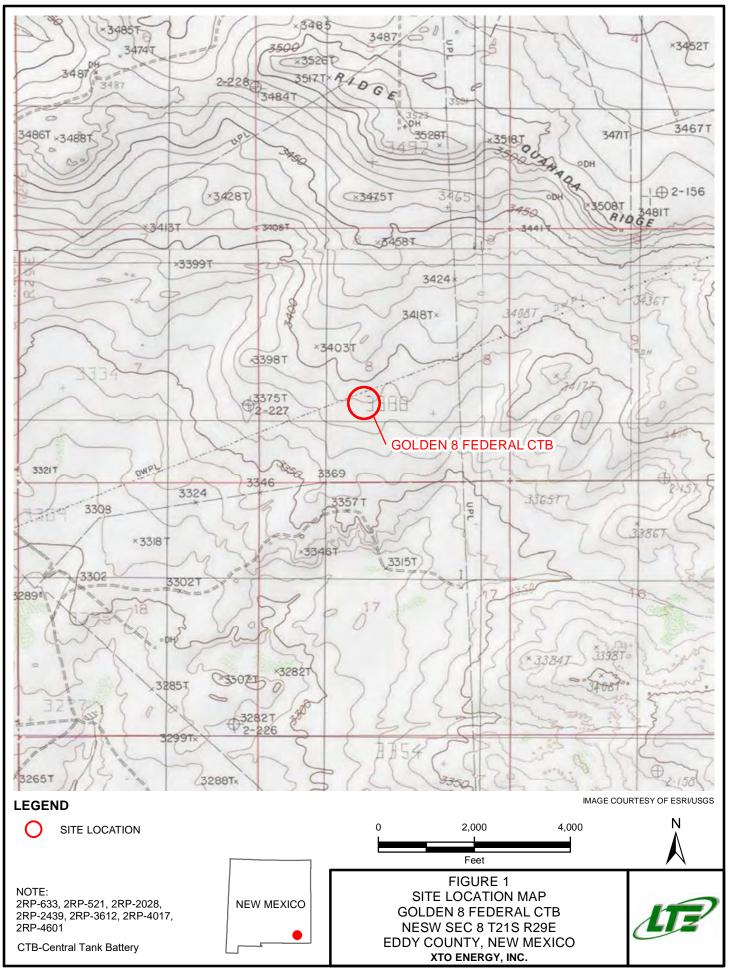
Figure 1	Site Location Map
Figure 2	Site Sample Locations (2RP-633, 2RP-521, 2RP-2082, 2RP-2439)
Figure 3	Site Sample Locations (2RP-3612, 2RP-4017)
Figure 4	Site Sample Locations (2RP-4601)
Table 1	Soil Analytical Results (2RP-633, 2RP-521, 2RP-2082, 2RP-2439)
Table 2	Soil Analytical Results (2RP-3612, 2RP-4017)

- Table 3Soil Analytical Results (2RP-4601)
- Attachment 1 Initial NMOCD Forms C-141
- Attachment 2 Laboratory Analytical Reports
- Cc: Kyle Littrell, XTO Mike Bratcher, NMOCD Shelly Tucker, BLM

FIGURES

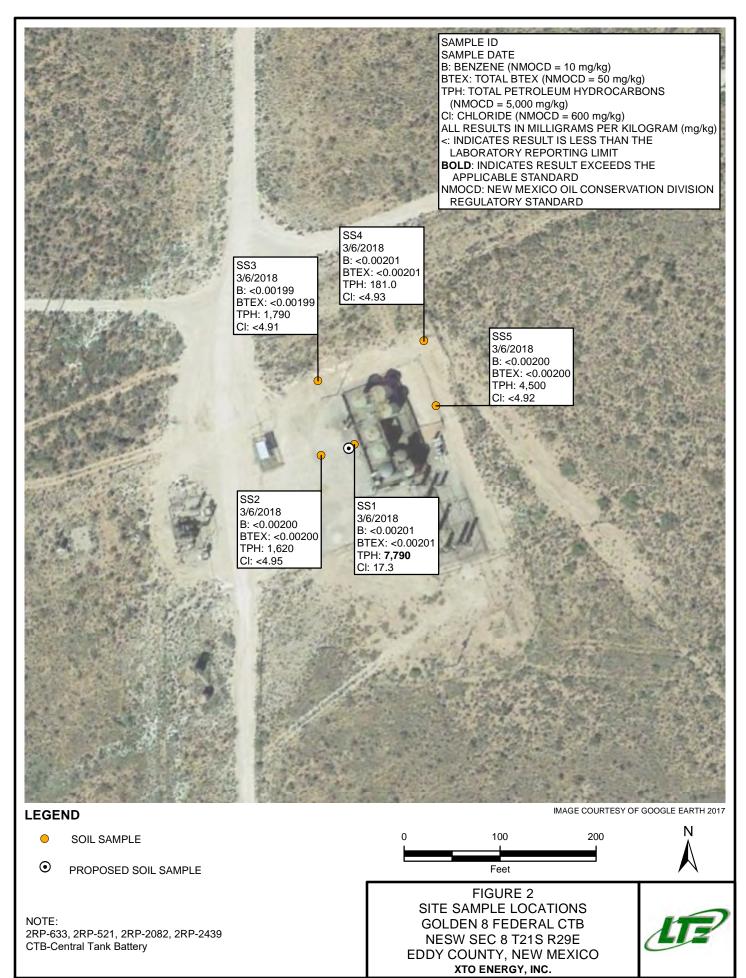


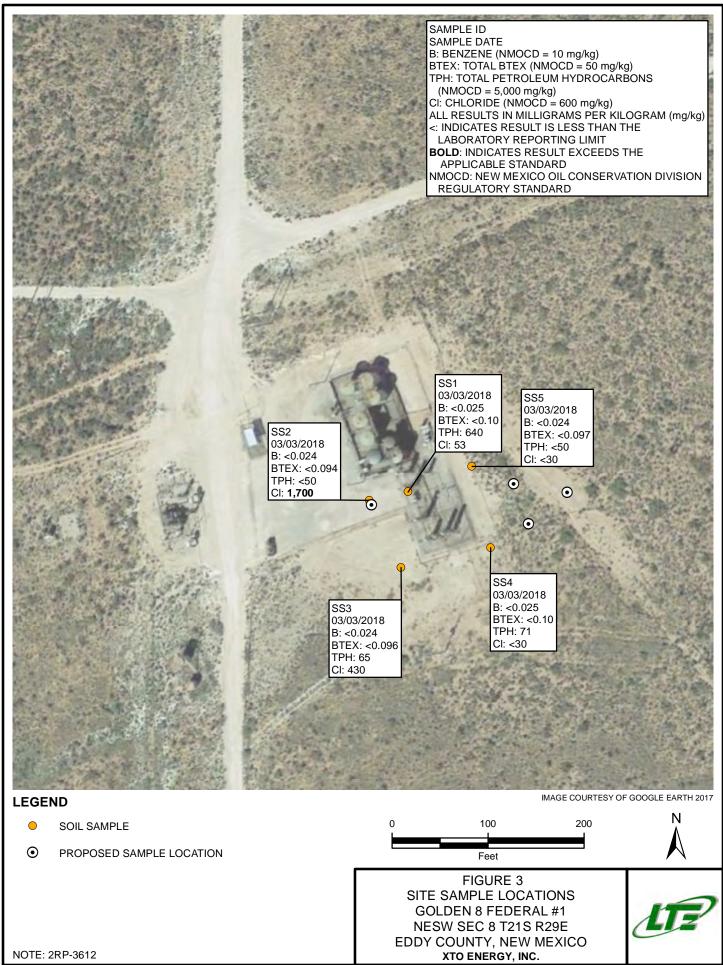
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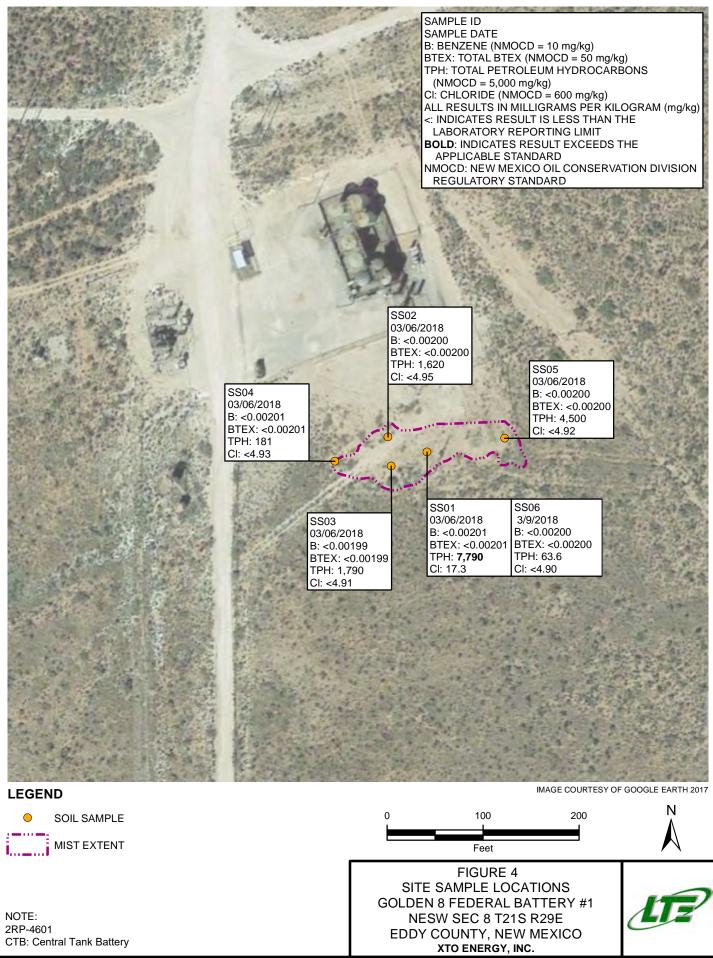
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TABLES



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TABLE 1 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL CTB 2RP-633, 2RP-521, 2RP-2082, 2RP-2439 EDDY COUNTY, NEW MEXICO

XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 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	3/6/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<74.9	7,100	686	7,790	17.3
SS02	0.5	3/6/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	1,540	82.7	1,620	<4.95
SS03	0.5	3/6/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<14.9	1,700	89.9	1,790	<4.91
SS04	0.5	3/6/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	155	26.4	181.0	<4.93
SS05	0.5	3/6/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<74.8	3,900	604	4,500	<4.92
NMOCD Regulatory	/ Standard	NE	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

Bold - indicates result exceeds the applicable regulatory standard.



TABLE 2 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL #1 2RP-3612 EDDY COUNTY, NEW MEXICO

XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	8	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	03/03/2018	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	<5.0	230	410	640	53
SS02	0.5	03/03/2018	< 0.024	< 0.047	< 0.047	< 0.094	< 0.094	<4.7	<10	<50	<50	1,700
SS03	0.5	03/03/2018	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	<4.8	11	54	65	430
SS04	0.5	03/03/2018	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	< 5.0	<9.9	71	71	<30
SS05	0.5	03/03/2018	< 0.024	< 0.048	< 0.048	< 0.097	< 0.097	<4.8	<10	<50	<50	<30
NMOCD Regulate	ory Standard	NE	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

Bold - indicates result exceeds the applicable regulatory standard.



TABLE 3 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL BATTERY #1 2RP-4601 EDDY COUNTY, NEW MEXICO

XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 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	Surface	03/06/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<74.9	7100	686	7,790	17.3
SS02	Surface	03/06/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	1540	82.7	1620	<4.95
SS03	Surface	03/06/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<14.9	1700	89.9	1790	<4.91
SS04	Surface	03/06/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	155	26.4	181	<4.93
SS05	Surface	03/06/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<74.8	3900	604	4500	<4.92
SS06	0.5	3/9/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	63.6	<15.0	63.6	<4.90
NMOCD Regulator	y Standard	NE	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



ATTACHMENT 1

ORIGINAL FORMS C-141



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ANGEOVATION

Page 20 of 100

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District I			DIL CONSERV	τ			
625 N. French Dr., Hobbs, NM 88240 District II		New Mexico and Natural Resources	ARTESIA DISTRICT Form C-14 FCD 0.9. 2018 Revised August 8, 20				
11 S. First St., Artesia, NM 88210 District III			FEB 02 201	to appropriate District Office in			
000 Rio Brazos Road, Aztec, NM 87410 District IV		vation Division St. Francis Dr.	ac	cordance with 19.15.29 NMAC.			
220 S. St. Francis Dr., Santa Fe, NM 87505		e, NM 87505	RECEIVED				
Rel		n and Corrective A	Action				
NAB180366381013		OPERATOR		l Report 🛛 Final Repor			
Name of Company: XTO Energy, Inc.	30PM 210737	Contact: Kyle Littrell					
Address: 522 W. Mermod, Suite 704 Car	lsbad, N.M. 88220	Telephone No. 432-221-7.					
Facility Name: Golden 8 Federal Battery P&A in 2011)	#1 (Well #1 was	Facility Type: Exploration	and Production				
Surface Owner: Federal	Mineral Owner:	Federal	API No	. 30-015-26931			
	LOCATIO	N OF RELEASE					
Unit Letter Section Township Range K 8 21S 29E	······································	/South Line Feet from the 2375	East/West Line West	County Eddy			
La	titude <u>32.490876°</u>	Longitude -104.00762	27°				
		OF RELEASE					
Type of Release Fire/Crude Oil		Volume of Release <1 bbl	Volume I 0 bbl	Recovered			
Source of Release Flare		Date and Hour of Occurrer		Hour of Discovery 8, 10:00 AM			
Was Immediate Notice Given?		1/18/2018, 10:00 AM If YES, To Whom?	1/16/2010	5, 10.00 AIVI			
🛛 Yes [No 🗌 Not Required	Mike Bratcher/Crystal We	aver (NMOCD), Sho	elly Tucker/Jim Amos (BLM)			
		Date and Hour 1/18/2018					
By Whom? Kyle Littrell Was a Watercourse Reached?	🛛 No	Date and Hour 1/18/2018 If YES, Volume Impacting N/A					
	-	If YES, Volume Impacting					
Was a Watercourse Reached?	.* on Taken.* using fluid to exit the facil	If YES, Volume Impacting N/A	the Watercourse.	and impacted the ground within			
Was a Watercourse Reached?	.* on Taken.* using fluid to exit the facil opened and all wells flowi sken.* e feet and was extinguished	If YES, Volume Impacting N/A ity flare. A small amount of e ing into location were shut in.	the Watercourse. exiting fluids ignited 2600 square feet of s	urrounding area (mostly to the			
Was a Watercourse Reached? Yes 2 If a Watercourse was Impacted, Describe Fully N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed can flare carthen berm. Dump valve was manually Describe Area Affected and Cleanup Action Ta Fire briefly impacted approximately 250 square west and east). An environmental contract com I hereby certify that the information given above regulations all operators are required to report a public health or the environment. The acceptar should their operations have failed to adequatel or the environment. In addition, NMOCD acce	.* on Taken.* using fluid to exit the facil opened and all wells flowi aken.* e feet and was extinguished npany applied MicroBlaze //e is true and complete to t and/or file certain release n the of a C-141 report by th ly investigate and remediat	If YES, Volume Impacting N/A ity flare. A small amount of e ing into location were shut in. d. Oil misted approximately 2 to the affected area and will o he best of my knowledge and outifications and perform corn e NMOCD marked as "Final te contamination that pose a th loes not relieve the operator o	the Watercourse. exiting fluids ignited 2600 square fect of s continue to assist wit understand that pur- ective actions for rel Report" docs not rel hreat to ground wate f responsibility for c	urrounding area (mostly to the h remediation efforts. suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other			
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Was a Watercourse Reached?	• on Taken.* using fluid to exit the facil opened and all wells flowing the feet and was extinguished the feet and was extinguished in the feet and complete to the and/or file certain release in the factor of a C-141 report by the sptance of a C-141 report do the feet and complete to the feet and the feet and the sptance of a C-141 report do the feet and the feet and	If YES, Volume Impacting N/A ity flare. A small amount of e ing into location were shut in. d. Oil misted approximately 2 to the affected area and will c he best of my knowledge and itotifications and perform corre e NMOCD marked as "Final e contamination that pose a th loes not relieve the operator o OIL CON Approved by Environmental	the Watercourse. exiting fluids ignited 2600 square feet of s continue to assist with understand that pur- ective actions for rel Report" does not rel fresponsibility for construction NSERVATION Specialist:	urrounding area (mostly to the h remediation efforts. suant to NMOCD rules and cases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other DIVISION			

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/2/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4UD has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/2/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

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

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

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

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

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

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

Weaver, Crystal, EMNRD

From:	Ruth, Amy <amy_ruth@xtoenergy.com></amy_ruth@xtoenergy.com>
Sent:	Friday, February 2, 2018 9:49 AM
То:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc:	Sanders, Toady; McSpadden, Wes; Foust, Bryan; Littrell, Kyle
Subject:	Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)
Attachments:	Initial C-141 - Golden Federal D,8,17 CTB 1-18-18.pdf

Good Morning,

Please find attached the initial form C-141 detailing the accidental release of fluids and associated fire at the referenced facility. Thank you and contact us any time with questions or concerns.

Respectfully,

Amy C. Ruth

Delaware Basin Division Environmental Coordinator 3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | O: 575.689.3380



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From: Littrell, Kyle
Sent: Thursday, January 18, 2018 2:03 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc: Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
Subject: Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

Kyle Littrell EH&S Coordinator XTO Energy Inc. Delaware Division Phone:(432)-221-7331 | Mobile:(970)-317-1867 kyle_littrell@xtoenergy.com

Bratcher, Mike, EMNRD

From:	Littrell, Kyle <kyle_littrell@xtoenergy.com></kyle_littrell@xtoenergy.com>
Sent:	Thursday, January 18, 2018 2:03 PM
То:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc:	Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
Subject:	Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

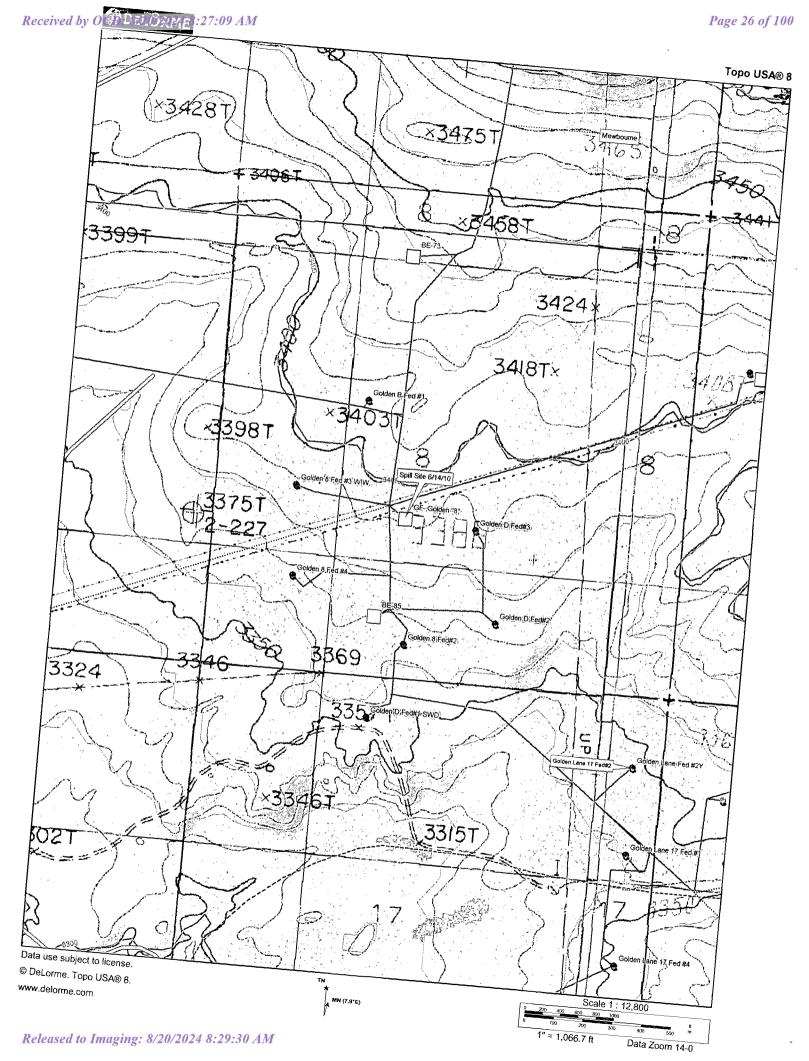
This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

Kyle Littrell EH&S Coordinator XTO Energy Inc. Delaware Division Phone:(432)-221-7331 | Mobile:(970)-317-1867 kyle_littrell@xtoenergy.com

An ExxonMobil Subsidiary

eceived by OCD: 8/20/2024 8:27:0	09 AM		1		Page 25 of			
<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>		of New Mexico als and Natural Resour		EIVE	Form C-14 Revised October 10, 200			
301 W. Grand Avenue, Artesia, NM 88210 District III		servation Division		22 201	Submit 2 Copies to appropriat			
000 Rio Brazos Road, Aztec, NM 87410		outh St. Francis Dr.	District Office in acc					
<u>District IV</u> 220 S. St. Francis Dr., Santa Fe, NM 87505		a Fe, NM 87505	NMOCE) ARTE	SIA with Rule 116 on bac side of for			
30-015-26931	Release Notificat		ve Action	an an internet and a second second second	and a second			
MW 1035646177		OPERATOR			al Report 🛛 🗌 Final Rep			
Name of Company BOPCO, L.P.	260731	Contact Tony Savoie						
Address 522 W. Mermod, Suite 70		Telephone No. 432-5	56-8730					
Facility Name: Golden 8 Federal B	attery #1	Facility Type E&P						
Surface Owner Federal	Mineral Owr	er Federal		Lease N	No			
		ION OF RELEASE						
Unit Letter Section Township	~	orth/South Line Feet from	m the East/W	/est Line	County			
K 8 21S	29E				Eddy			
	L atituda N 22 401	129 Longitude W 10	4 009147		I			
	-	438 Longitude W 10	4.008147		<i>.</i>			
Type of Release: Crude oil		RE OF RELEASE Volume of Release: 9	90 Bbls of	Volume I	Recovered: 80 bbls of crude oi			
Source of Release: Drain line connection	on on the back of a 500 bbl. tar	Crude oil 1k Date and Hour of Oc	currence	Date and	Hour of Discovery			
source of Release. Drain fine connectiv		Unknown	currence	6/14/10				
Was Immediate Notice Given?	Yes 🗌 No 🗌 Not Requi	If YES, To Whom? ired Randy NMOCD on c	call operator					
By Whom? Tony Savoie		Date and Hour 6/14/	10 9:24 a.m.					
Was a Watercourse Reached?	Yes 🛛 No	If YES, Volume Imp	acting the Wate	rcourse.				
If a Watercourse was Impacted, Descri	he Fully *				· · · · · · · · · · · · · · · · · · ·			
Describe Cause of Problem and Remed oil in the tank was removed, the tank w								
Describe Area Affected and Cleanup A around the tanks. The free standing flui inside the containment area will be sam The Site remediation for the crude oil s I hereby certify that the information give regulations all operators are required to public health or the environment. The should their operations have failed to a for the environment. In addition, NMO federal, state, or local laws and/or regu	ids were removed. The heavily npled to determine vertical extension spill will follow the NMOCD go ven above is true and complete preport and/or file certain releas acceptance of a C-141 report bo dequately investigate and remove CD acceptance of a C-141 report	saturated soil is in the proc ent; a remediation plan alon uidelines for leaks and spill to the best of my knowledg use notifications and perform by the NMOCD marked as " ediate contamination that po	ess of being ren g with a new co s. gc and understar n corrective acti Final Report" d se a threat to gr	noved and ntainment of that pur- ons for rel oes not rel ound wate	placed on plastic. The area plan will be submitted. suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health			
		OIL	CONSERV	ATION	DIVISION			
Signature: Tony Dame	2 US	Approved by District S	upervisor:	1 .				
Printed Name: Tony Savoie			d By Mile	1 Bren	much-			
Title: Waste Mgmt.& Remediation Spe	ecialist	Approval Date: 3	3/11 1	Expiration	Date:			
E-mail Address: TASavoie@BassPet.c	om	Conditions of Approval	• I:		Attached			
Date: 6/22/10	Phone:432-556-873	Remediation						
Attach Additional Sheets If Necessa		Guidelines. SUBN PROPOSAL NOT I 4//3			RP-521			

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Received by OCD: 8/20/2024 8:27:09 AM		Page 27 of 100					
District II Energy Miner	of New Mexico als and Natural Resources	Form C-141 Revised October 10, 2003					
1301 W. Grand Avenue, Artesia, NM 88210 District III Oil Con	servation Division	Submit 2 Copies to appropriate					
1000 Rio Brazos Road, Aztec, NM 87410	outh St. Francis Dr.	District Office in accordance with Rule 116 on back					
1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	a Fe, NM 87505	side of form					
30-015-26931 Release Notificat	ion and Corrective Actio	<u>n</u>					
nKmw /106629393	OPERATOR	Initial Report Final Report					
Name of Company BOPCO, L.P. 2607.37	Contact Tony Savoie						
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-556-8730						
Facility Name: Golden 8 Federal Battery #1	Facility Type E&P						
Surface Owner Federal Mineral Own	er Federal	Lease No.					
	ION OF RELEASE	t/West Line County					
K 8 21S 29E		Eddy					
		·					
Latitude_N 32.4913	352 Longitude W 104.008223						
NATII	RE OF RELEASE						
Type of Release: Crude Oil	Volume of Release: 310 Bbls Crude oil	Volume Recovered: 290					
Source of Release: 500 bbl tank overflow	Date and Hour of Occurrence	Date and Hour of Discovery					
Was Immediate Notice Given?	2/16/11 hour not known If YES. To Whom? NMOCD eme	2/16/11 10:00 a.m. ergency reporting. Left message with details.					
Yes No Not Requi		ingency reporting. Dert message with details.					
By Whom? Tony Savoie							
Was a Watercourse Reached?	Date and Hour 2/16/11 1:30 p.m. If YES, Volume Impacting the W	atercourse.					
🗌 Yes 🛛 No	L Yes X No FRECEIVED						
Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. RECEIVED MAR 02 2011 MAR 02 2011							
	NMOCD ARTESIA						
Describe Cause of Problem and Remedial Action Taken.* A 500 bbl. was repaired and put back in service.	Describe Cause of Problem and Remedial Action Taken.* A 500 bbl. Oil product tank overflowed due to a heater-treater malfunction. The heater-treater						
Describe Area Affected and Cleanup Action Taken.*An area inside th							
pasture land outside the containment measuring approximately 400 sc							
reported to the NMOCD on 10/6/10. The oil saturated soil outside the of crude oil was recovered from inside the containment. The area insi							
The Site remediation for the crude oil spill will follow the NMOCD g	uidelines for leaks and spills.	-					
I hereby certify that the information given above is true and complete 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 reme							
or the environment. In addition, NMOCD acceptance of a C-141 reported federal, state, or local laws and/or regulations.	ort does not relieve the operator of respo	nsibility for compliance with any other					
	OIL CONSER	VATION DIVISION					
Signature: Come Damo		Å i					
Signature. One Sound	Approved by District Supervisor: Signed By M1/4 Drancular						
Printed Name: Tony Savoie							
Title: Waste Mgmt.& Remediation Specialist	Approval Date: 3/7/11	Expiration Date:					
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached					
Date: 3/3/11 Phone:432-556-8730	Remediation per OCD Ru	les &					
* Attach Additional Sheets If Necessary	Guidelines. SUBMIT REMEDI						
	PROPOSAL NOT LATER THAN						
	4/7/11	_					
	/ /						

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Released	<i>to</i>	Imaging:	8/	/20,	/20	24	8:	29:	30	AM
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Received by O	CD: 8/20/2	2024 8:27:09	9 AM								Pa	ge 28 of 100		
District I 1625 N. French Dr., Hobbs, NM 88240 RECEIVED State of New Mexico District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 MERCEIVED State of New Mexico Energy Minerals and Natural Resources NOV 26 2013 Oil Conservation Division Santa Fe, NM 87505					Sub	mit 1 Copy ac		Revised	Form C-141 August 8, 2011 trict Office in 5.29 NMAC.					
$\overline{1}$	(Rele	ase Notific	eatio	n and Co	orrective A	ction	1					
Name of Company: BOPCO, L.P.260737CoAddress: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220To							al Report		Final Report					
P&A 2011				· · · · · · · · · · · · · · · · · · · ·			•							
Surface Ow	ner: Federa	al		Mineral C)wner:	Federal			API No. 30-015-26931					
				LOCA	атю	N OF RE	LEASE							
Unit Letter K	Section 8	Township 21S	Range 29E	Feet from the 1650	North South	/South Line	Feet from the 2180	East/V West	West Line	County Eddy				
				Latitude <u>N 32</u>	.49114	Longitud	e W 104.00777:	5						
	- <u>C</u> 1-	·1	- 4	NAT	URE	OF REL		- 6	Maluma)	Dhlar	l and 2 Dhia		
Type of Rele	ase: Crude (oil and produc	ed water				nd 15 Bbls water					Recovered: 3 Bbls oil and 2 Bbls		
		er-treater fire t	ube			Date 11/25	Hour of Occurrent	e unknown 11/25/13 Time approximately 9:00 a.m.						
Was Immedi	ate Notice C		Yes 🗌] No 🖾 Not Re	equired	If YES, To	whom?							
By Whom? Was a Water	By Whom? Was a Watercourse Reached?			Date and H If YES, Ve		pacting the Watercourse.								
If a Waterco	urse was Im	pacted, Descri	ibe Fully.*											
	on the heat	em and Reme er-treater deve			n was s	witched out o	f the vessel, a vac	aum tru	ck was dis	patched to th	e site t	o recover the		
The spill imp practicable in	bacted appro	ound the vess	sq. ft. of t els and lin	he tank battery ea es during a remed	liation	at the facility	ea. The spill impa in August of 2011 uding data from t	l, referer	nce spill re					
regulations a public health should their or the enviro	Il operators or the envir operations h nment. In a	are required to onment. The ave failed to a	o report ar acceptanc idequately OCD accep	nd/or file certain r ce of a C-141 repo investigate and r	elease f ort by th emedia	notifications a ne NMOCD m te contaminat	knowledge and t nd perform corre- narked as "Final R ion that pose a thu e the operator of	ctive act Report" c reat to gi respons	ions for rel loes not rel round wate ibility for c	eases which ieve the ope r, surface wa compliance v	may en rator of ater, hu with any	ndanger `liability man health		
Signature:	i Oru	Dau	â				<u>OIL CON</u>	<u>SERV</u>	<u>ATION</u>	DIVISIO	<u>DN</u>			
Printed Nam	\mathcal{C}					Approved by	Environmental S	pecialis Sig	t: ned By	R/14 A	Bran	dest		
Title: Waste	Managemen	nt and Remedi	ation Spec	cialist		Approval Da	<u>iov 26201</u>	3	Expiration	Date:				
E-mail Addr	ess: tasavoie	@basspet.cor	n			Conditions o		Guidelin	es, &	Attached				
Date:			Phone:	432-556-8730			BLM. SUBMIT							

PROPOSAL NO LATER THAN:

7

scember 26,2013

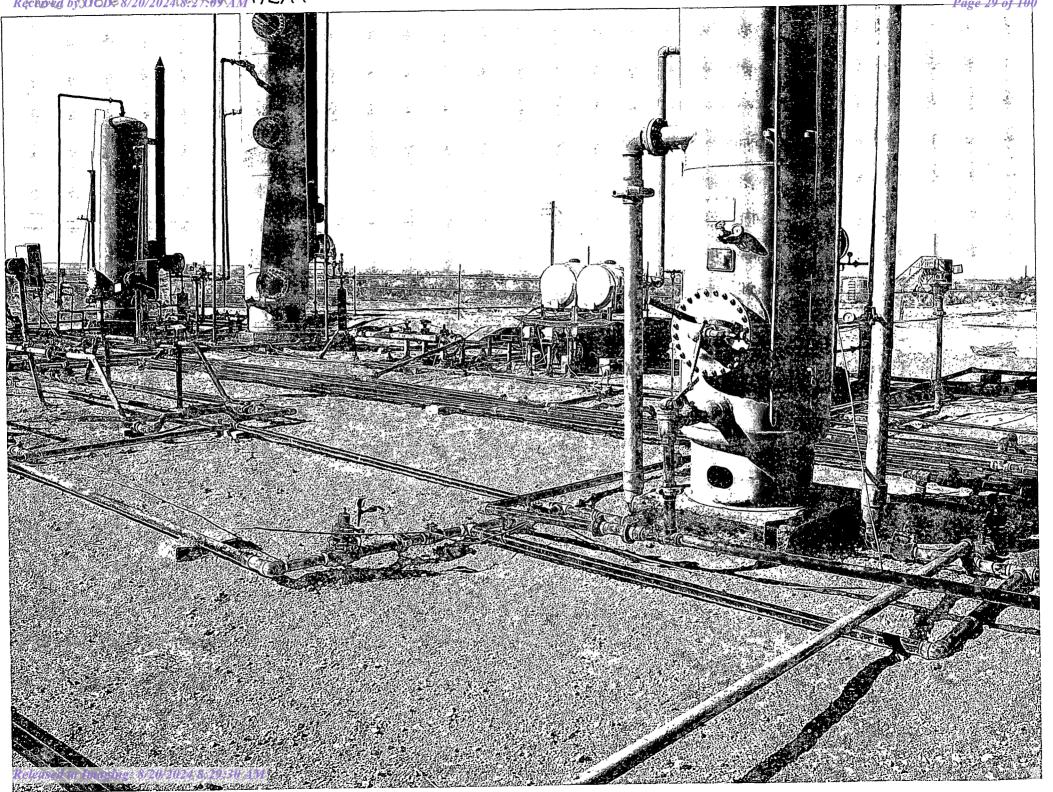
r

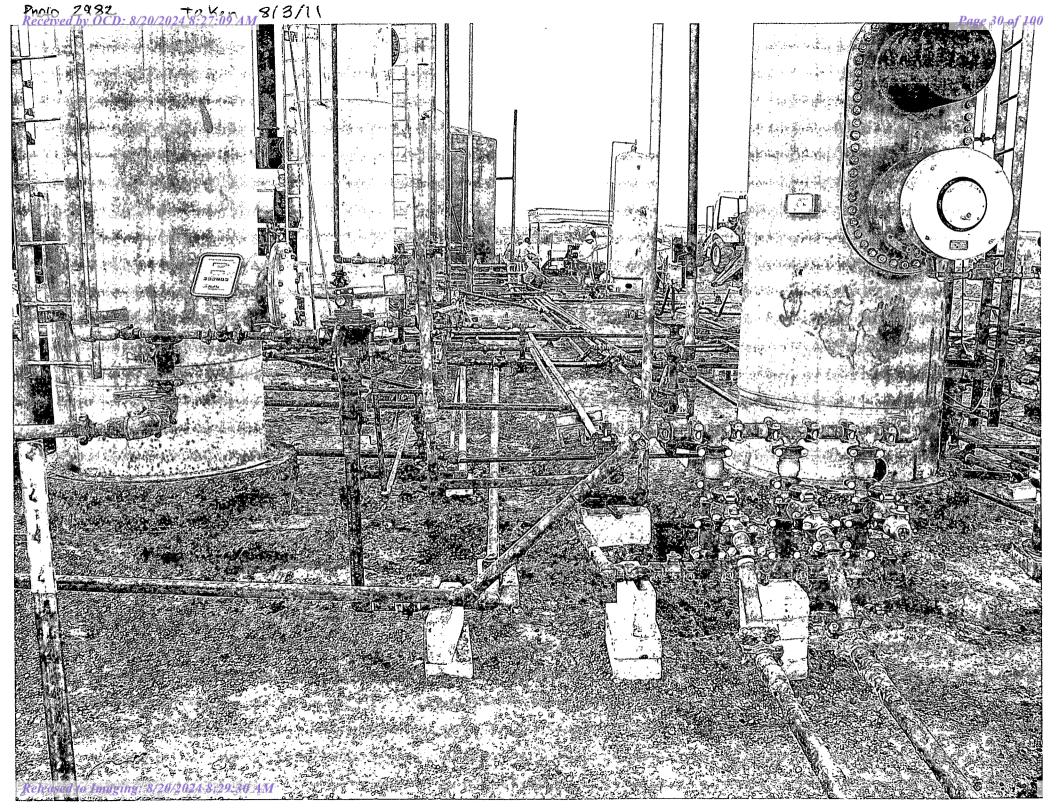
2RP-2082

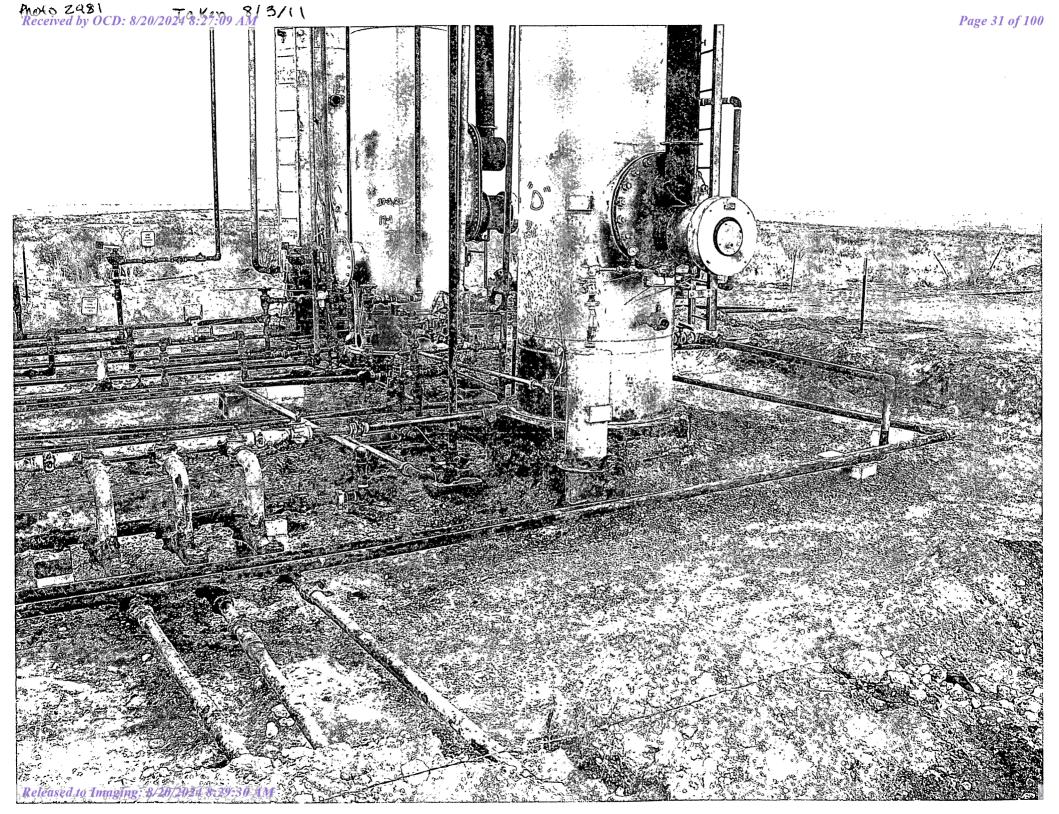
		DI 100 556 0 7 00
1	Date:	Phone: 432-556-8730
*	Attach Additional She	ets If Necessary

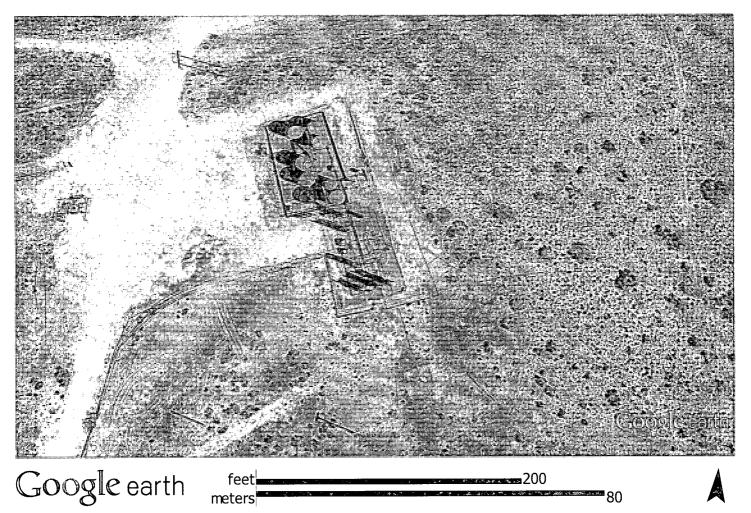
Rectioned by 3080= 8/20/202418:2 Kog AMA /2/11











eived by OCD: 8/20/2024 8:27:09 AM					RTESIA DIS		Page 3.	3 of 10		
625 N French Dr. Hobbs NM 88240	State of New Mexico Energy Minerals and Natural Resou			. 4	4UG 13		Form Revised Augus	n C-14 st 8, 201		
11 S. First St., Artesia, NM 88210 vistrict III 000 Rio Brazos Road, Aztec, NM 87410 vistrict IV 1220 Sc	nser outh	vation Div St. France NM 875	vision is Dr.	Sub RECEDYED ppropriate District Off accordance with 19.15.29 NM						
Release Notificat				ctio	1		<u></u>			
NAB14771,37719		OPERA	TOR		🖂 Initia	al Report	🔲 Fin:	al Repo		
NAB 422(1.372/9 Name of Company: BOPCO, L.P. 340737		Contact: Tor								
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Facility Name: Golden 8 Federal Battery #1, the Well #1 was P&A 2011			lo. 575-887-732 e: Exploration a		oduction					
Surface Owner: Federal Mineral Own	ner: l	Federal	-		API No	. 30-015-2	26931			
LOCAT	IOI	N OF REI	LEASE							
Unit Letter Section Township Range Feet from the N		South Line	Feet from the 2180	East/ West	West Line	County Eddy				
Latitude N 32.49		_ 0								
	RE	OF RELI		0	V.L		1 Dh1 eil en	4.17		
Type of Release: Crude oil and produced water			Release: 3 Bbls on and 38 Bbls water	01	Bbls wate		covered: 1 Bbl. oil and 17 our of Discovery: Date ne approximately 10:30 a.m.			
Source of Release: Victaulic fitting on the production header.			lour of Occurrenc							
Was Immediate Notice Given? 🛛 Yes 🗌 No 🗌 Not Requ	uired	If YES, To	1 <u>4 Time unknowr</u> Whom? Emergency #104							
By Whom? Tony Savoie			lour: 8/12/14 at 12							
Was a Watercourse Reached?	If YES, Vo	lume Impacting t	he Wa	tercourse.						
If a Watercourse was Impacted, Describe Fully.*		N		- CONSE	-	N				
					UG 13	-				
Describe Cause of Problem and Remedial Action Taken.* A Victaulic gasket failed on the production header due to a normally The gasket was replaced and the valve was returned to normal.	open	i valve was sh	ut causing pressu	re to b	_	blow out th	e gasket.			
Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 1500 sq. ft. of the tank battery eart practicable in the area around the vessels and lines during a remediat impacted by spill reference 2RP-2082. The area will be re-addressed from the previous two spills. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain rele public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and rem	tion a l, clea e to tl ease n by the	t the facility in ned up as req he best of my otifications ar e NMOCD m	n August of 2011 uired and a new c knowledge and u nd perform correc arked as "Final R	, refere losure ndersta tive ac eport"	ence 2RP-63 report will b and that purs tions for rele does not reli	3. And the solution of the submittee	same are as d including d 10CD rules a n may endang erator of liab	lata and ger ility		
should their operations have tailed to adequately investigate and rem										
or the environment. In addition, NMOCD acceptance of a C-141 rep federal, state, or local laws and/or regulations.						DIVICE		er 		
or the environment. In addition, NMOCD acceptance of a C-141 rep			OIL CON	Å	4 1	DIVISI	<u>NC</u>			
or the environment. In addition, NMOCD acceptance of a C-141 rep federal, state, or local laws and/or regulations.		Approved by	OIL CON	Å	4 1	DIVISI(<u>NC</u>			
or the environment. In addition, NMOCD acceptance of a C-141 rep federal, state, or local laws and/or regulations.		Approved by Approval Dat	Environmental S Signed By	Å	4 1	<u>relese -</u>	<u>-</u> }			
or the environment. In addition, NMOCD acceptance of a C-141 rep federal, state, or local laws and/or regulations. Signature: 6 Signature: 6 Signature Printed Name: Tony Savoie		Approval Dat Conditions of	Environmental S Signed By e: Approval:	sein)	Expiration	<u>relese -</u>	<u>-</u> 7			
or the environment. In addition, NMOCD acceptance of a C-141 rep federal, state, or local laws and/or regulations. Signature: 6 Sumo Printed Name: Tony Savoie Title: Waste Management and Remediation Specialist		Approval Dat Conditions of Reme	Environmental S Signed By e: 5114114	CD Ru	Expiration	Date: NH	<u>-</u> 7			

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Received by OCD: 8/20/2024 8:27:09 AM	NM OIL CONSERVATION Page 34 of ARTESIA DISTRICT					
1025 N. French Dr., Hobbs, NM 88240	DI NEW MEXICO					
811 S. First St., Artesia, NM 88210	Is and Natural Resources MAR 1 5 2016 Revised August 8, 2011					
IVUU KIO BIBZOS KOBG. Aztec NM X/410	ervation Division Submit 1 Copy to appropriate District Office in RECEIVED RECEIVED					
District IV 1220 Sou						
Salila	Fe, NM 87505					
· · · · · · · · · · · · · · · · · · ·	on and Corrective Action					
NAB1607837012	OPERATOR Initial Report Final Report					
Name of Company: BOPCO, L.P.Ju0731Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Contact: Amy Ruth Telephone No. 575-887-7329					
Facility Name: Golden 8 Federal #001	Facility Type: Exploration and Production					
Surface Owner: Federal Mineral Owne	r: Federal API No. 30-015-26931					
	· · · · · · · · · · · · · · · · · · ·					
	ON OF RELEASE th/South Line Feet from the East/West Line County					
K 8 21S 29E 1650 Sou						
Latitude <u>32.491242</u>	Longitude					
NATUR	E OF RELEASE					
Type of Release Crude Oil	Volume of Release 30 bbls Volume Recovered 7 bbls					
Source of Release Heater Gasket	Date and Hour of Occurrence Date and Hour of Discovery					
	2/1/2016 time unknown 2/1/2016					
Was Immediate Notice Given?	If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD), Jim Amos (BLM)					
By Whom? Brad Blevins	Date and Hour 2/2/2016 3:26 pm					
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.					
☐ Yes ⊠ No N/A						
If a Watercourse was Impacted, Describe Fully.* N/A						
Describe Cause of Problem and Remedial Action Taken.* Gasket seal in heater treater runtured and released fluids onto location a	and pasture. Operator switched out vessels until repairs could be made to treater					
gasket.						
Describe Area Affected and Cleanup Action Taken.*						
	are feet of pasture to the east of the battery. Standing fluids were recovered.					
	- the first of any local data and understeed that assessed to NMOCD rules and					
regulations all operators are required to report and/or file certain release	o the best of my knowledge and understand that pursuant to NMOCD rules and e notifications and perform corrective actions for releases which may endanger					
public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed	the NMOCD marked as "Final Report" does not relieve the operator of liability liate contamination that pose a threat to ground water, surface water, human health					
or the environment. In addition, NMOCD acceptance of a C-141 report	t does not relieve the operator of responsibility for compliance with any other					
federal, state, or local laws and/or regulations.	OIL CONSERVATION DIVISION					
Signature: A man A made	Approved by Environmental Specialist					
Printed Mame: Amy C. Ruth	A set la f					
Title: EHS Remediation Specialist	Approval Date: 3/21114 Expiration Date: NIA					
E-mail Address: ACRuth@basspet.com	Conditions of Approval:					
	Remediation per O.C.D. Rules & Guidelines					
Date: <u>3-15-2016</u> Phone: 432-661-0571 • Attach Additional Sheets If Necessary	- SUBMIT HEMEDIATION PHOPOSAL INC.					
Attach Auditional Sneets II Necessary	LATER THAN: 4/211110 2/6P-36/2					

Page 34 of 100

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Received by OCD: 8/20/2024 8:27:09 AM

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Tuesday, March 15, 2016 2:59 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	Biehl, William "Bill"
Subject:	RE: Golden 8 Federal 001
Attachments:	Initial C-141 Golden 8 Federal Battery 2-1-16.pdf

Hello Mike/Heather,

I've been on medical leave since the beginning of February. Brad would have turned in this C-141 to you, but I stubbornly told him I would get it to you to save him the trouble. I had since been incapacitated and you can see where that has gotten us! My apologies, here is the very late initial C-141 for the spill notified to you on the date below. Please call me with any questions/concerns. I also have one more to submit that is late that was not immediately reportable but occurred on the same day. That was at the JRU 36 and that C-141 will follow this email. As always, thank you for your patience...:)

-----Original Message-----From: Blevins, Bradley Sent: Tuesday, February 02, 2016 3:26 PM To: mike.bratcher@state.nm.us; heather.patterson@state.nm.us; Jim Amos Cc: Blevins, Bradley; Ruth, Amy C. Subject: Golden 8 Federal 001

All,

Bopco EHS was notified of a release that occurred on the Golden 8 Federal 001 due to a man way gasket failure on the heater treater. The majority of the heavy saturation remained inside the earthen firewall but there was an overspray area to the east of the production equipment. It is estimated that 29 barrels of oil was released with 7 barrels oil being recovered by vacuum truck. If you have any additional questions please let me know. Thanks

Sent from my iPhone

Bratcher, Mike, EMNRD

From:	Blevins, Bradley <bblevins@basspet.com></bblevins@basspet.com>
Sent:	Tuesday, February 02, 2016 3:26 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Jim Amos
Cc:	Blevins, Bradley; Ruth, Amy C.
Subject:	Golden 8 Federal 001

All,

Bopco EHS was notified of a release that occurred on the Golden 8 Federal 001 due to a man way gasket failure on the heater treater. The majority of the heavy saturation remained inside the earthen firewall but there was an overspray area to the east of the production equipment. It is estimated that 29 barrels of oil was released with 7 barrels oil being recovered by vacuum truck. If you have any additional questions please let me know. Thanks

Sent from my iPhone

Page	37	of 100	
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		NM C	DIL CONSER ARTESIA DISTR			
District I 1625 N. French Dr., Hobbs, NM 88240		New Mexico		Form C-141		
<u>District II</u> 811 S. First St., Artesia, NM 88210		and Natural Resources				
<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410		vation Division	Submit 1 C	Copy to appropriate District Office in accordance with 19.15.29 NMAC.		
District IV 220 S. St. Francis Dr., Santa Fe, NM 87505		n St. Francis Dr.	RECEIVED			
	e, NM 87505					
	e Notification	n and Corrective	Action			
NAB1433656856		OPERATOR		nitial Report 🛛 Final Repor		
Name of Company: BOPCO, L.P.		Contact: Amy Ruth		·····		
Address: 522 W. Mermod, Suite 704 Carlsbad, Facility Name: Golden Federal Battery #1		Telephone No. 575-887-7 Facility Type: Exploratio		n		
Surface Owner: Federal	Mineral Owner:	Federal	<u> API</u>	No. 30-015-26931		
		N OF RELEASE				
	et from the North	South Line Feet from the 2300	East/West Li	ne County Eddy		
·····································						
Latitu	de <u>32.491322°</u>	_Longitude104.0078	<u>68°</u>			
	NATURE	OF RELEASE				
Type of Release Crude Oil		Volume of Release 32 bbls	Volur 30 bb	ne Recovered		
Source of Release 3 Phase Vessel		Date and Hour of Occurre		and Hour of Discovery		
		11/26/2016 time unknow	vn 11/26	/2016 approx. 10 am by operator		
Was Immediate Notice Given?	o 🔲 Not Required	If YES, To Whom? Mike Bratcher/Heather Pr	atterson (NMOCT)) and Iim Amos/Shelly Tucker		
		d Mike Bratcher/Heather Patterson (NMOCD) and Jim Amos/Shelly Tucker (BLM)				
By Whom? Amy Ruth (within 2 hours of being no	ified)	Date and Hour 11/28/2016 11:19 am				
Was a Watercourse Reached?	If YES, Volume Impactin	ig the Watercours	е.			
			·			
If a Watercourse was Impacted, Describe Fully.* N/A						
Describe Cause of Problem and Remedial Action Ta Unused 3 phase vessel re-fitted and returned to oper		from vessel through pressu	re relief value and	leaking Vic connections Fluids		
escaped mostly into zero permeability containment.	ation. Fluids released	nom vesser mough pressu		reaking vic connections. Thirds		
Describe Area Affected and Cleanup Action Taken.	•					
The leak affected a total of about 3,168 square feet of	of caliche pad, zero pe	rmeability containment, and	misted pasture ea	ast of the location. Free standing		
liquids were recovered via vacuum truck and equipr	nent, tanks, and liner	were power washed. Vessel	was isolated.			
I hereby certify that the information given above is t						
regulations all operators are required to report and/o public health or the environment. The acceptance o						
should their operations have failed to adequately inv	estigate and remediat	e contamination that pose a	threat to ground w	vater, surface water, human health		
or the environment. In addition, NMOCD acceptan						
federal, state, or local laws and/or regulations.						
XIX		<u>OIL CO</u>	NSERVAIL	ON DIVISION		
Signature: / und MLD				· .		
Printed Name: Amy C. Ruth		Approved by Environing the	USpecialist11/4	DRAMERICA		
		11120	11/0	N/A		
Title: EHS Environmental Supervisor		Approval Date:	HW Expirat	ion Date: N/_P		
E-mail Address: ACRuth@basspet.com		Conditions of Approval:		Attached		
Date: 11/29/2016 Phone: 432-6	61-0571					
Attach Additional Sheets If Necessary				2RD-401'		
				CINF IV		

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Tuesday, November 29, 2016 2:50 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	jamos@blm.gov; Tucker, Shelly
Subject:	RE: Release Notification - Golden Federal Battery 11-26-16
Attachments:	Initial C-141 Golden Federal Battery 11-26-16.pdf

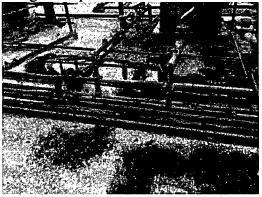
Please find the Initial form C-141 for the leak referenced below. Feel free to call me with any questions. Thank you!

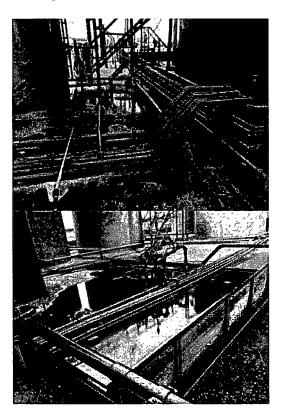
From: Ruth, Amy C.
Sent: Monday, November 28, 2016 11:19 AM
To: 'Mike Bratcher'; 'Heather.Patterson@state.nm.us'
Cc: jamos@blm.gov; Tucker, Shelly
Subject: Release Notification - Golden Federal Battery 11-26-16

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p. Latitude: 32.491241 Longitude: -104.008324

Lease operator reported release on 11/26/2016 due to PRV on three phase vessel popping and Vic connections on vessel leaking. The majority of fluid was released into impervious containment and there was a mist oil & gas that affected soil and equipment. There was a vacuum truck dispatched to recover fluid from containment and ground puddles.







Amy C. Ruth

BOPCO, L.P. EH&S Department

522 W. Mermod, Suite 704 Carlsbad, NM 88220 O: (575)689-3380 C: (432)661-0571

Bratcher, Mike, EMNRD

Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Monday, November 28, 2016 11:19 AM
Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
jamos@blm.gov; Tucker, Shelly
Release Notification - Golden Federal Battery 11-26-16
RADAR

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p. Latitude: 32.491241 Longitude: -104.008324

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ATTACHMENT 2

LABORATORY ANALTYICAL REPORTS



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March 13, 2018

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

RE: Golden 8 Federal 1 Tank Battery

OrderNo.: 1803223

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear A Baker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/6/2018 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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE			Client Sampl	e ID: SS	1		
Project: Golden 8 Federal 1 Tank Ba	ttery	Collection Date: 3/3/2018 9:30:00 AM					
Lab ID: 1803223-001	Matrix: SOIL		Received	Received Date: 3/6/2018 6:55:00 AM			
Analyses	Result	PQL Qua	d Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	: CJS	
Chloride	ND	30	mg/Kg	20	3/8/2018 2:54:50 PM	36903	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analys	: TOM	
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	3/7/2018 5:55:30 PM	36866	
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	3/7/2018 5:55:30 PM	36866	
Surr: DNOP	89.6	70-130	%Rec	1	3/7/2018 5:55:30 PM	36866	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/7/2018 10:25:16 AM	36859	
Surr: BFB	94.9	15-316	%Rec	1	3/7/2018 10:25:16 AM	36859	
EPA METHOD 8021B: VOLATILES					Analys	: NSB	
Benzene	ND	0.025	ma/Ka	1	3/7/2018 10:25:16 AM	36850	

EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	3/7/2018 10:25:16 AM	36859
Toluene	ND	0.050	mg/Kg	1	3/7/2018 10:25:16 AM	36859
Ethylbenzene	ND	0.050	mg/Kg	1	3/7/2018 10:25:16 AM	36859
Xylenes, Total	ND	0.099	mg/Kg	1	3/7/2018 10:25:16 AM	36859
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	3/7/2018 10:25:16 AM	36859

- * 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
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE	Client Sampl	e ID: SS	2					
Project: Golden 8 Federal 1 Tank Ba	attery	tery Collection Date: 3/3/2018 9:40:00 AM						
Lab ID: 1803223-002	Matrix: SOIL		Received	Received Date: 3/6/2018 6:55:00 AM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	t: CJS		
Chloride	43	30	mg/Kg	20	3/8/2018 3:07:15 PM	36903		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	5			Analyst	t: TOM		
Diesel Range Organics (DRO)	220	9.6	mg/Kg	1	3/7/2018 6:39:24 PM	36866		
Motor Oil Range Organics (MRO)	200	48	mg/Kg	1	3/7/2018 6:39:24 PM	36866		
Surr: DNOP	105	70-130	%Rec	1	3/7/2018 6:39:24 PM	36866		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	t: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/7/2018 10:48:56 AM	36859		
Surr: BFB	96.1	15-316	%Rec	1	3/7/2018 10:48:56 AM	36859		
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB		
Benzene	ND	0.024	mg/Kg	1	3/7/2018 10:48:56 AM	36859		
Toluene	ND	0.047	mg/Kg	1	3/7/2018 10:48:56 AM	36859		
Ethylbenzene	ND	0.047	mg/Kg	1	3/7/2018 10:48:56 AM	36859		

0.094

80-120

mg/Kg

%Rec

1

1

3/7/2018 10:48:56 AM

3/7/2018 10:48:56 AM

36859

36859

ND

103

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

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- 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
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE	Client Sample ID: SS3							
Project: Golden 8 Federal 1 Tank B	attery	collection Date: 3/3/2018 9:50:00 AM						
Lab ID: 1803223-003	Matrix: SOIL		Received Date: 3/6/2018 6:55:00 AM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: CJS		
Chloride	ND	30	mg/Kg	20	3/8/2018 3:19:40 PM	36903		
EPA METHOD 8015M/D: DIESEL RAM		6			Analyst	t: TOM		
Diesel Range Organics (DRO)	38	10	mg/Kg	1	3/8/2018 11:50:16 AM	36866		
Motor Oil Range Organics (MRO)	140	50	mg/Kg	1	3/8/2018 11:50:16 AM	36866		
Surr: DNOP	98.5	70-130	%Rec	1	3/8/2018 11:50:16 AM	36866		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	III NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2018 11:12:38 AM	36859		
Surr: BFB	96.6	15-316	%Rec	1	3/7/2018 11:12:38 AM	36859		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.025	mg/Kg	1	3/7/2018 11:12:38 AM	36859		
Toluene	ND	0.049	mg/Kg	1	3/7/2018 11:12:38 AM	36859		
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2018 11:12:38 AM	36859		

0.098

80-120

mg/Kg

%Rec

1

1

3/7/2018 11:12:38 AM

3/7/2018 11:12:38 AM

36859

36859

ND

104

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

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- 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
- Analyte detected below quantitation limits Page 3 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE Client Samp					4	
Project: Golden 8 Federal 1 Tank Ba	ttery Collection Date: 3/3/2018 10:00:00 AM					
Lab ID: 1803223-004	Matrix:	SOIL	Received Date: 3/6/2018 6:55:00 AM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: CJS
Chloride	ND	30	mg/Kg	20	3/8/2018 3:32:04 PM	36903
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analys	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/7/2018 8:07:29 PM	36866
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/7/2018 8:07:29 PM	36866
Surr: DNOP	93.0	70-130	%Rec	1	3/7/2018 8:07:29 PM	36866
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Surr: BFB	95.2	15-316	%Rec	1	3/7/2018 11:36:26 AM	36859
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.023	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Toluene	ND	0.046	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Ethylbenzene	ND	0.046	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Xylenes, Total	ND	0.092	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	3/7/2018 11:36:26 AM	36859

- * 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
- Analyte detected below quantitation limits Page 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE		(Client Sampl	e ID: SS	5				
Project: Golden 8 Federal 1 Tank Ba	ttery	Collection Date: 3/3/2018 10:10:00 AM							
Lab ID: 1803223-005	Matrix:	SOIL	Received	Date: 3/6	5/2018 6:55:00 AM				
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	: CJS			
Chloride	72	30	mg/Kg	20	3/8/2018 3:44:29 PM	36903			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analys	: TOM			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/7/2018 8:29:20 PM	36866			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/7/2018 8:29:20 PM	36866			
Surr: DNOP	92.0	70-130	%Rec	1	3/7/2018 8:29:20 PM	36866			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2018 12:00:06 PM	36859			
Surr: BFB	95.1	15-316	%Rec	1	3/7/2018 12:00:06 PM	36859			
EPA METHOD 8021B: VOLATILES					Analys	: NSB			
Benzene	ND	0.024	mg/Kg	1	3/7/2018 12:00:06 PM	36859			
Toluene	ND	0.049	mg/Kg	1	3/7/2018 12:00:06 PM	36859			
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2018 12:00:06 PM	36859			
Xylenes, Total	ND	0.097	mg/Kg	1	3/7/2018 12:00:06 PM	36859			
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	3/7/2018 12:00:06 PM	36859			

- * 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
- Analyte detected below quantitation limits Page 5 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Envi	WO#: 1803223 <i>13-Mar-18</i>	
Client:	LTE	
Project:	Golden 8 Federal 1 Tank Battery	

-				
Sample ID MB-36903	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 36903	RunNo: 49642		
Prep Date: 3/8/2018	Analysis Date: 3/8/2018	SeqNo: 1606266	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-36903	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 36903	RunNo: 49642		
Prep Date: 3/8/2018	Analysis Date: 3/8/2018	SeqNo: 1606267	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 95.0 90	110	

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 6 of 9

OC SUMMARY REPORT H

L.		WO#:	1803223
Hall Env		13-Mar-18	
Client:	LTE		

Project: Golden	8 Federal 1	Tank H	Battery							
Sample ID LCS-36866	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 36866			F	RunNo: 4	9602				
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	S	SeqNo: 1	603693	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
0 D.N.O.D.							100			
Surr: DNOP	3.8		5.000		75.4	70	130			
Surr: DNOP Sample ID MB-36866		ype: ME		Tes	-		130 8015M/D: Die	esel Range	e Organics	
	SampT	ype: ME 1D: 36	BLK		-	PA Method		esel Rango	e Organics	
Sample ID MB-36866	SampT	n ID: 36	3LK 866	F	tCode: El	PA Method 9602		U	e Organics	
Sample ID MB-36866 Client ID: PBS	SampT Batch	n ID: 36	3LK 866 7/2018	F	tCode: El RunNo: 4 SeqNo: 1	PA Method 9602	8015M/D: Die	U	e Organics RPDLimit	Qual
Sample ID MB-36866 Client ID: PBS Prep Date: 3/6/2018	SampT Batch Analysis D	n ID: 36 ate: 3/	3LK 866 7/2018	F	tCode: El RunNo: 4 SeqNo: 1	PA Method 9602 603694	8015M/D: Die Units: mg/K	g	U	Qual
Sample ID MB-36866 Client ID: PBS Prep Date: 3/6/2018 Analyte	SampT Batch Analysis D Result	n ID: 36 ate: 3/ PQL	3LK 866 7/2018	F	tCode: El RunNo: 4 SeqNo: 1	PA Method 9602 603694	8015M/D: Die Units: mg/K	g	U	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
- Sample container temperature is out of limit as specified W

Page 7 of 9

QC SUMMARY REPORT Hall

L		WO#: 1803223
Hall Env	ironmental Analysis Laboratory, Inc.	13-Mar-18
Client:	LTE	
Project:	Golden 8 Federal 1 Tank Battery	

Sample ID MB-36859	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 36859			R	RunNo: 49627					
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	S	SeqNo: 1	604248	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.9	15	316			
Sample ID LCS-36859	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Sample ID LCS-36859 Client ID: LCSS	•	ype: LC			tCode: El		8015D: Gaso	line Rang	e	
•	•	n ID: 36	859	R		9627	8015D: Gaso Units: mg/K	Ū	e	
Client ID: LCSS	Batch	n ID: 36	859 7/2018	R	RunNo: 4	9627		Ū	e RPDLimit	Qual
Client ID: LCSS Prep Date: 3/6/2018	Batch Analysis D	n ID: 36 Date: 3/	859 7/2018	R S	RunNo: 49 SeqNo: 10	9627 604249	Units: mg/K	(g		Qual

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

Page 8 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	P	age	51	of	100
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	WO#:	1803223	
sis Laboratory, Inc.		13-Mar-18	

Client: Project:	LTE Golden S	8 Federal 1	Tank I	Sattery							
-				•	Too		DA Mathad	8021B: Volat	liloo		
Sample ID ME		•	ype: ME						ines		
Client ID: PB	BS	Batch ID: 36859			R	unNo: 4	9627				
Prep Date: 3	/6/2018	Analysis D	ate: 3/	7/2018	S	eqNo: 1	604285	Units: mg/k	٢g		
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-Bromoflu	orobenzene	0.90		1.000		90.2	80	120			
Sample ID LC	S-36859	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LC	ss	Batch	n ID: 36	859	RunNo: 49627						
Prep Date: 3	/6/2018	Analysis D	ate: 3/	7/2018	S	eqNo: 1	604287	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.025	1.000	0	96.3	77.3	128			
Toluene		0.98	0.050	1.000	0	97.9	79.2	125			
Ethylbenzene		0.99	0.050	1.000	0	98.9	80.7	127			
Xylenes, Total		3.1	0.10	3.000	0	102	81.6	129			
Surr: 4-Bromoflu	orobenzene	0.95		1.000		95.0	80	120			

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 9 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albı TEL: 505-345-3975 Website: www.ha	49(iquera FAX;	01 Hawkins NE que, NM 87109 505-345-4107	Sar	nple Log-In Check List	_
Client Name: LTE MIDLAND	Work Order Number:	180	3223		RcptNo: 1	-
Received By: Anne Thorne	3/6/2018 6:55:00 AM			Im I.		
Completed By: Isaiah Ortiz Reviewed By: おん のろ10に118	3/6/2018 9:14:16 AM	L	Cheled By Deep 2/6/13 PD5	() : 171	\sim	
<u>Chain of Custody</u>		-	5/6103 000			
1. Is Chain of Custody complete?		Yes		No 🗔	Not Present	
2. How was the sample delivered?		<u>Cou</u>	rier			
Log In				No 🗌	NA 🗔	
3. Was an attempt made to cool the samples?		Yes		NO 🗀	NA LJ	
4. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes		No 🗌	NA 🗀	
5. Sample(s) in proper container(s)?		Yes	1 🔽	No 🛄		
6. Sufficient sample volume for indicated test(s)?		Yes		lo 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes	✓ N	lo 🗌		
8. Was preservative added to bottles?		Yes		lo 🗹	NA 🗔	
9. VOA vials have zero headspace?		Yes	<u> </u>	lo 🗌	No VOA Vials 🗹	
10. Were any sample containers received broken	?	Yes	1	No 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	✓ N	lo 🗌	bottles checked for pH: (<2 or >12 unless noted)	
12. Are matrices correctly identified on Chain of Ci	ustody?	Yes	N	lo 🗌	Adjusted?	
13. Is it clear what analyses were requested?	-	Yes	✓ N	lo 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)				lo 🗌	Checked by:	
Special Handling (if applicable)						
15. Was client notified of all discrepancies with the	s order?	Yes	N	No 🗌	NA 🗹	
Person Notified:	Date:			distriction in the second	a t a tommer a tommer	
By Whom:	Via:] eMa	ail 🗌 Phone	📋 Fax	In Person	
Regarding:			and a second second second behavior			
Client Instructions:				nie ne arte ne van oortene oor		
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C Condition Sea 1 1.0 Yes	I Intact Seal No Se	eal Da	ate Signe	d By		

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Page 1 of 1

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Client:	175		t (TE	74	-			I	ALL	HALL ENVIRONMENTAL	5	õ	ž	Ē	Ę	1
	ut perman	Nad	Man	Standard	C Rush			< П	IN	ANALYSIS LABORATORY	S	AB	Q	3	20	2
		-		Project Name	& Codera	J#1 Tank			www.he	www.hallenvironmental.com	nmen	tal.co	ε			
Mailing	g Address	NOVA:	Mailing Address: MIGLOND , TX	KSRE NOTES	(5)	Battery	4901	4901 Hawkins NE - Albuquerque, NM 87109	IS NE	Albuc	Inerqu	IC. NN	A 871	60		
3300	A N B	Stree	17 501	Project #:		1	Tel.	Tel. 505-345-3975	5-3975	Fa	Fax 505-345-4107	-345-	4107			
Phone #:	1#: 43	2-764	432-764-5178	32-013	515-26931					Analysis Request	s Red	luest				1
email (1.200	abawerg	LENU.COM	Project Manager	ger:		(Kju	(0)	1	1.0	-		-	-	-	_
OA/OC Packa	0A/0C Package.		Level 4 (Full Validation)	Adnen	en Balles	7	io sed)	SO / WE	(SWIS		1.12.20.00			-	1	1.
Accred	Accreditation			Sampler.	XC		Hd		1.11				_	12	(cy	ag
D NELAP	LAP	D Other		On Ice:	X Yes	□ No	L+		1.10	-		1	(4	92	57	10
DED	C EDD (Type)			Sample Temp	emperature:	.0.	381	_	100	etals		(A	01-1	3	28	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	M + X3T8 M + X3T8	HPH (Meth	FDB (Meth 758) 2'HA9	м 8 АЯЭЯ), 7) anoinA Ilia99 1808	OV) £0958	ma2) 0728	XILS	411	CNIGNO
3/2	0630	S	M SS	1-462	carl	8							~	X	X	
1	0460	1	552	_		e 00	-				-				-	
	0560	/	SS 3			(M3					_					_
-	aau		Ssy			С04					-					
8	0101	>	555	>	>	005			-		-		28		X	
															-	
				5	0	6									-	
pate: 5/4	Time.	Relinquished by:	Set by:	Received by /	M	3/4 1200	Remarks	EDA 2 RP-6033	603	M	Ħ		289-2439	he	5	
S S	Time:	Relingerind py	C C C C C C C C C C C C C C C C C C C	Received	Da	3/5/15 1720	H 2	- より2日	2202.	- 10		- 11				

Released to Imaging: 8/20/2024 8:29:30 AM



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

March 14, 2018

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

RE: Golden 8 Federal 1 RP 2RP-3612

OrderNo.: 1803221

Dear Adrian Baker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/6/2018 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

CLIENT: LTE

Project:

Lab ID:

Analytical Report
Lab Order 1803221

Golden 8 Federal 1 RP 2RP-3612

1803221-001

Lab Order **1803221** Date Reported: **3/14/2018**

Client Sample ID: SS1

Collection Date: 3/3/2018 8:40:00 AM

Received Date: 3/6/2018 6:55:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	53	30	mg/Kg	20	3/7/2018 5:21:40 PM	36886
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	230	9.6	mg/Kg	1	3/7/2018 1:31:40 PM	36866
Motor Oil Range Organics (MRO)	410	48	mg/Kg	1	3/7/2018 1:31:40 PM	36866
Surr: DNOP	93.4	70-130	%Rec	1	3/7/2018 1:31:40 PM	36866
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/7/2018 2:24:20 PM	36859
Surr: BFB	89.6	15-316	%Rec	1	3/7/2018 2:24:20 PM	36859
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	3/7/2018 2:24:20 PM	36859
Toluene	ND	0.050	mg/Kg	1	3/7/2018 2:24:20 PM	36859
Ethylbenzene	ND	0.050	mg/Kg	1	3/7/2018 2:24:20 PM	36859
Xylenes, Total	ND	0.10	mg/Kg	1	3/7/2018 2:24:20 PM	36859
Surr: 4-Bromofluorobenzene	88.1	80-120	%Rec	1	3/7/2018 2:24:20 PM	36859

Matrix: SOIL

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diffeed 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 Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

36859

36859

36859

36859

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT: LTE		(Client Sampl	e ID: SS	2	
Project: Golden 8 Federal 1 RP 2RP-:	3612		Collection I	Date: 3/3	3/2018 8:50:00 AM	
Lab ID: 1803221-002	Matrix:	SOIL	Received l	Date: 3/6	5/2018 6:55:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	1700	75	mg/Kg	50	3/9/2018 6:59:22 PM	36886
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analyst	: ТОМ
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2018 11:41:09 AM	36866
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/7/2018 11:41:09 AM	36866
Surr: DNOP	87.4	70-130	%Rec	1	3/7/2018 11:41:09 AM	36866
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/7/2018 2:47:38 PM	36859
Surr: BFB	90.0	15-316	%Rec	1	3/7/2018 2:47:38 PM	36859
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/7/2018 2:47:38 PM	36859

3/7/2018 2:47:38 PM mg/Kg Ethylbenzene ND 0.047 mg/Kg 1 3/7/2018 2:47:38 PM Xylenes, Total ND 0.094 mg/Kg 1 3/7/2018 2:47:38 PM Surr: 4-Bromofluorobenzene 87.4 80-120 %Rec 3/7/2018 2:47:38 PM 1

0.047

ND

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

Qualifiers:

Toluene

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

1

- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

*

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT:	: LTE			Client Sampl	e ID: SS	3	
Project:	Golden 8 Federal 1 RP 2RF	P-3612		Collection I	Date: 3/3	/2018 9:00:00 AM	
Lab ID:	1803221-003	Matrix:	SOIL	Received Date: 3/6/2018 6:55:00 AM			
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: CJS
Chloride		430	30	mg/Kg	20	3/8/2018 12:01:08 PM	36903
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS	5			Analys	t: TOM
Diesel R	Range Organics (DRO)	11	9.8	mg/Kg	1	3/8/2018 1:20:12 PM	36866
Motor O	il Range Organics (MRO)	54	49	mg/Kg	1	3/8/2018 1:20:12 PM	36866
Surr:	DNOP	80.9	70-130	%Rec	1	3/8/2018 1:20:12 PM	36866
						Analys	

EPA METHOD 8015D: GASOLINE RANG	GE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Surr: BFB	91.9	15-316	%Rec	1	3/7/2018 7:04:03 PM	36859
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Toluene	ND	0.048	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Xylenes, Total	ND	0.096	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Surr: 4-Bromofluorobenzene	90.5	80-120	%Rec	1	3/7/2018 7:04:03 PM	36859

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
- Analyte detected below quantitation limits Page 3 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT:	LTE			Client Samp	e ID: SS4		
Project:	Golden 8 Federal 1 RP 2RP-3	612		Collection 1	Date: 3/3/2018	9:10:00 AM	
Lab ID:	1803221-004	Matrix: S	SOIL	Received	Date: 3/6/2018	6:55:00 AM	
Analyses		Result	PQL Qu	al Units	DF Date	Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	: CJS
Chloride		ND	30	mg/Kg	20 3/8/2	018 12:13:32 PM	36903

EPA METHOD 8015M/D: DIESEL RANGE		6			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/7/2018 2:58:59 PM	36866
Motor Oil Range Organics (MRO)	71	50	mg/Kg	1	3/7/2018 2:58:59 PM	36866
Surr: DNOP	91.8	70-130	%Rec	1	3/7/2018 2:58:59 PM	36866
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Surr: BFB	90.1	15-316	%Rec	1	3/7/2018 7:27:17 PM	36859
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Toluene	ND	0.050	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Ethylbenzene	ND	0.050	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Xylenes, Total	ND	0.10	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Surr: 4-Bromofluorobenzene	88.5	80-120	%Rec	1	3/7/2018 7:27:17 PM	36859

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
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Diesel Range Organics (DRO)

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

36866

36866

36866

36859

36859

36859

36859

36859

36859

36859

Analyst: NSB

Analyst: NSB

Analytical Report

Lab Order 1803221

Date Reported: 3/14/2018

3/7/2018 8:51:18 PM

3/7/2018 8:51:18 PM

3/7/2018 8:51:18 PM

3/7/2018 7:50:27 PM

CLIENT:	LTE			Client Samp	e ID: SS5			
Project:	Golden 8 Federal 1 RP 2RP-3	3612		Collection Date: 3/3/2018 9:20:00 AM				
Lab ID:	1803221-005	Matrix: S	Date: 3/6/2018 6:55:00 AM					
Analyses		Result	PQL Qu	al Units	DF Date Analyzed	Batch		
EPA ME	THOD 300.0: ANIONS				Analy	st: CJS		
Chloride		ND	30	mg/Kg	20 3/8/2018 12:50:46 PM	/ 36903		
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS			Analy	st: TOM		

10

50

4.8

70-130

15-316

0.024

0.048

0.048

0.097

80-120

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

ND

ND

77.2

ND

91.2

ND

ND

ND

ND

90.4

- * 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 Page 5 of 9
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client:

Project:

Sample ID MB-36886 Client ID: PBS

QC SUMMARY REPORT Hall Environmental

	AY REPORI ntal Analysis Laborator	ry, Inc.	WO#:	1803221 14-Mar-18
LTE Golde	n 8 Federal 1 RP 2RP-3612			
6886	SampType: mblk	TestCode: EPA Method 300.0: Anions		
	Batch ID: 36886	RunNo: 49611		
018	Analysis Date: 3/7/2018	SeaNo: 1604728 Units: ma/Ka		

Prep Date: 3/7/2018	Analysis Date: 3/7/2018	SeqNo: 1604728	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Q	ual
Chloride	ND 1.5			
Sample ID LCS-36886	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 36886	RunNo: 49611		
Prep Date: 3/7/2018	Analysis Date: 3/7/2018	SeqNo: 1604730	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Q	ual
Chloride	15 1.5 15.00	0 101 90	110	
Sample ID MB-36903	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 36903	RunNo: 49642		
Prep Date: 3/8/2018	Analysis Date: 3/8/2018	SeqNo: 1606266	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Q	ual
Chloride	ND 1.5			
Sample ID LCS-36903	SampType: Ics	TestCode: EPA Method	300.0: Anions	
1				
Client ID: LCSS	Batch ID: 36903	RunNo: 49642		
Client ID: LCSS Prep Date: 3/8/2018	Batch ID: 36903 Analysis Date: 3/8/2018	RunNo: 49642 SeqNo: 1606267	Units: mg/Kg	
	Analysis Date: 3/8/2018			ual

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

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LTE

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Golden 8 Federal 1 RP 2RP-3612

Sample ID LCS-36866	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 36866			RunNo: 49602						
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	S	SeqNo: 1	603693	Units: mg/K	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
Surr: DNOP	3.8		5.000		75.4	70	130			
Sample ID MB-36866	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Sample ID MB-36866 Client ID: PBS	•	ype: ME 1D: 36			tCode: El RunNo: 4 9		8015M/D: Die	esel Rang	e Organics	
	•	D: 36	866	R		9602	8015M/D: Die Units: mg/K	U	e Organics	
Client ID: PBS	Batch	D: 36	866 7/2018	R	RunNo: 4	9602		U	e Organics RPDLimit	Qual
Client ID: PBS Prep Date: 3/6/2018	Batch Analysis D	alD: 36 ate: 3/	866 7/2018	R S	RunNo: 49 SeqNo: 10	9602 603694	Units: mg/k	(g	U	Qual
Client ID: PBS Prep Date: 3/6/2018 Analyte	Batch Analysis D Result	ate: 3/	866 7/2018	R S	RunNo: 49 SeqNo: 10	9602 603694	Units: mg/k	(g	U	Qual

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

1803221

14-Mar-18

WO#:

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Client:

QC SUMMARY REPORT Hall E

	WO#: 180322	21
Environmental Analysis Laboratory, Inc.	14-Mar-1	! 8
LTE		=

Project: Golden	8 Federal 1	RP 2RI	P-3612							
Sample ID MB-36859	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	S	SeqNo: 1	604248	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.9	15	316			
Sample ID LCS-36859	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	5	SeqNo: 1	604249	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1100		1000		108	15	316			

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
- 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.

Page	63	of	100
1 "8"	00	<i>y</i>	100

1803221	WO#:
1/1/ 10	

14-Mar-18

	ΓE olden 8 Federal 1	וסי מס	D 2612							
		KF 2K	F-3012							
Sample ID MB-36859	le ID MB-36859 SampType: MBLK					PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis I	Analysis Date: 3/7/2018			SeqNo: 1	604285	Units: mg/H	ζg		
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-Bromofluorobenze	ne 0.90		1.000		90.2	80	120			
Sample ID LCS-3685	9 Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bato	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis I	Date: 3/	7/2018	S	SeqNo: 1	604287	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	77.3	128			
Toluene	0.98	0.050	1.000	0	97.9	79.2	125			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80.7	127			
Xylenes, Total	3.1	0.10	3.000	0	102	81.6	129			
Surr: 4-Bromofluorobenze	ne 0.95		1.000		95.0	80	120			

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

Page 9 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environn TEL: 505-345 Website: w	49 Albuquer -3975 FAX:)1 Hawkins jue, NM 87 505-345-4	NE 7109 Se 7107	Sample Log-In Check Lis					
Client Name: LTE MIDLAND	Work Order Nu	mber: 180	3221			RcptNo	: 1			
Received By: Anne Thorne	3/6/2018 6:55:00	АМ		Anne "	Am					
Completed By: Isaiah Ortiz	3/6/2018 8:25:04	АМ		IG						
Reviewed By: Sple 03106118		LB:1	205							
Chain of Custody										
1. Is Chain of Custody complete?		Yes		No 🗌	Not P	resent 🗌				
2. How was the sample delivered?		<u>Cou</u>	rie r							
Log In										
3. Was an attempt made to cool the samples?		Yes		No 🗌]	NA 🗌				
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes		No 🗌]	NA 🗌				
5. Sample(s) in proper container(s)?		Yes	✓	No 🗌						
6. Sufficient sample volume for indicated test(s)?	Yes		No 🗌]					
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes	✓	No 🗌						
8. Was preservative added to bottles?		Yes		No 🗹		NA 🗌				
9. VOA vials have zero headspace?		Yes		No 🗌	No VOA	Vials 🗹				
0. Were any sample containers received broke	n?	Yes		No 🔽	# of pres		· · · · · · · · · ·			
1. Does paperwork match bottle labels?		Yes	✓	No 🗌	bottles cl for pH:					
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of	Custodu?	¥		No 🗌	Adi	(<2 or justed?	>12 unless noted)			
3. Is it clear what analyses were requested?	Custody?	Yes Yes								
4. Were all holding times able to be met?				No 🗌	Che	cked by:				
(If no, notify customer for authorization.)							·····			
pecial Handling (if applicable)			_		_					
5. Was client notified of all discrepancies with	this order?	Yes		No		NA 🗹				
Person Notified:	Date	ə: [*****		locul					
By Whom:	Via:	🔄 eMa	iil 🗌 Ph	ione 🛄 Fa	ax 📄 In Pers	son				
Regarding:										
Client Instructions:				···· ···· ·						
16. Additional remarks:										
7. <u>Cooler Information</u>			. 1		I					
Cooler No Temp °C Condition Set 1 1.0 Good Yes	eal Intact Seal No	Seal D	ate s	Signed By	_					
	•				1					

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Page 1 of 1

	Standard Rush ANALYSTS LABORATORY	federa / # / www.hallenvironmental.com	P-3012 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	() () () () ()	PO., SC PO., SC (Gas of (Gas of (Gas of (Gas of	(1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	X-Yes DNo At 82 AN 04. 518 AN 04. 52 AN 04. 52 AN 04. 52 AN 04. 52 AN 04. 54	Temperature: (.O.1 BE E GI 00 0 0 01 1 1 0 01 2 1 0 01 2 1 0 00 0 0 0	Type and # Type and #	1-462 coul OOI XXX		003		1 1 N N N N N N N N N N N N N N N N N N			111	Received by Date Time Remarks:
		Project Nat	.#84	4/ Project #:	30-01		1.1.1		On Ice:	Sample Te	1.2.11	1-462	1	100		>		/	1	Received by
Chain-of-Custody Record	han		and, TX	ect. Bid 103		Q	Level 4 (Full Validation)		1		Sample Request ID	551	552	523	554	SSS			V	ed by: A
n-of-Cu	TE-DEMUAN	-	IDINY :ssa	N. A Sheet.	432-704	ar	je:		D Other	e)	le Matrix	0 5	1 0		0	NO				Relinquished by:
Chai	Client: CT		Mailing Address: AULULICAND	33601		email or Fax#:	QA/QC Package:	Accreditation	D NELAP	C EDD (Type)	Date Time	5/3 2040	1 6320	020	0160	0260 A			1	Pare: Time:

iging

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for LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal CTB

09-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), 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 (T104704400-18-14) 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)





09-MAR-18

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

Reference: XENCO Report No(s): **578604** Golden 8 Federal CTB 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) 578604. 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. 578604 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,

Jession Vermer

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



Released to Imaging: 8/20/2024 8:29:30 AM

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Sample Cross Reference 578604



LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	03-06-18 14:00		578604-001
SS02	S	03-06-18 14:10		578604-002
SS03	S	03-06-18 14:20		578604-003
SS04	S	03-06-18 14:30		578604-004
SS05	S	03-06-18 14:40		578604-005

Version: 1.%





CASE NARRATIVE

Page 69 of 100

Client Name: LT Environmental, Inc. Project Name: Golden 8 Federal CTB

Project ID: Work Order Number(s): 578604 Report Date:09-MAR-18Date Received:03/08/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3043201 BTEX by EPA 8021B

Lab Sample ID 578604-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 578604-001, -002, -003, -004, -005.

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

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 578604-005.

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





Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 578604

LT Environmental, Inc., Arvada, CO Project Name: Golden 8 Federal CTB



Date Received in Lab:Thu Mar-08-18 09:15 amReport Date:09-MAR-18Project Manager:Jessica Kramer

	Lab Id:	578604-0	001	578604-0	002	578604-0	003	578604-	004	578604-0	005	
Ameluaia Doguostad	Field Id:	SS01		SS02	SS02		SS03			SS05		
Analysis Requested	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	,	
	Sampled:	Mar-06-18	14:00	Mar-06-18	14:10	Mar-06-18	14:20	Mar-06-18	14:30	Mar-06-18	14:40	
BTEX by EPA 8021B	Extracted:	Mar-08-18	16:45	Mar-08-18	16:45	Mar-08-18	16:45	Mar-08-18	16:45	Mar-08-18	16:45	
	Analyzed:	Mar-09-18	10:55	Mar-09-18	10:55	Mar-09-18	10:55	Mar-09-18	10:55	Mar-09-18	10:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
m,p-Xylenes		< 0.00402	0.00402	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00402	0.00402	<0.00399	0.00399	
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Inorganic Anions by EPA 300	Extracted:	Mar-08-18	13:00	Mar-08-18 13:00		Mar-08-18 13:00		Mar-08-18 13:00		Mar-08-18 13:00		
	Analyzed:	Mar-08-18	16:11	Mar-08-18	16:29	Mar-08-18	16:34	Mar-08-18	16:39	Mar-08-18	16:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		17.3	4.99	<4.95	4.95	<4.91	4.91	<4.93	4.93	<4.92	4.92	
TPH by SW8015 Mod	Extracted:	Mar-08-18	10:00	Mar-08-18	10:00	Mar-08-18	10:00	Mar-08-18	10:00	Mar-08-18	10:00	
	Analyzed:	Mar-08-18	11:56	Mar-08-18	12:22	Mar-08-18	12:49	Mar-08-18	13:17	Mar-08-18	13:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<74.9	74.9	<15.0	15.0	<14.9	14.9	<15.0	15.0	<74.8	74.8	
Diesel Range Organics (DRO)		7100	74.9	1540	15.0	1700	14.9	155	15.0	3900	74.8	
Oil Range Hydrocarbons (ORO)		686	74.9	82.7	15.0	89.9	14.9	26.4	15.0	604	74.8	
Total TPH		7790	74.9	1620	15.0	1790	14.9	181	15.0	4500	74.8	

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

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

Version: 1.%

fession kramer

Jessica Kramer Project Assistant

Final 1.000



Certificate of Analytical Results 578604



LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id: SS01 Lab Sample Id: 578604-001		Matrix: Date Collec	Soil eted: 03.06.18 14.00		Date Received:03	.08.18 09.15	5
Analytical Method: Inorganic Anions Tech: OJS Analyst: OJS Seq Number: 3043151	by EPA 300	Date Prep:	03.08.18 13.00		Prep Method: E3 % Moisture: Basis: Wo	00P et Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.3	4.99	mg/kg	03.08.18 16.11		1

Analytical Method: TPH by SW801	15 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 03.08	18 10.00	E	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.9	74.9		mg/kg	03.08.18 11.56	U	5
Diesel Range Organics (DRO)	C10C28DRO	7100	74.9		mg/kg	03.08.18 11.56		5
Oil Range Hydrocarbons (ORO)	PHCG2835	686	74.9		mg/kg	03.08.18 11.56		5
Total TPH	PHC635	7790	74.9		mg/kg	03.08.18 11.56		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	03.08.18 11.56		
o-Terphenyl		84-15-1	110	%	70-135	03.08.18 11.56		



Certificate of Analytical Results 578604



LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id:SS01Lab Sample Id:578604-001	Matrix: Date Collecte	Soil ed: 03.06.18 14.00	Date Receive	ed:03.08.18 09.15
Analytical Method: BTEX by EPA 8021B Tech: ALJ			Prep Method % Moisture:	l: SW5030B
Analyst:ALJSeq Number:3043201	Date Prep:	03.08.18 16.45	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	03.09.18 10.55		
4-Bromofluorobenzene		460-00-4	118	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS02		Matrix:	Soil		Date Received:03.	08.18 09.1	5
Lab Sample	Id: 578604-002		Date Colle	ected: 03.06.18 14.10				
Analytical M	fethod: Inorganic Anion	s by EPA 300				Prep Method: E30)0P	
Tech:	OJS					% Moisture:		
Analyst:	OJS		Date Prep:	03.08.18 13.00		Basis: We	t Weight	
Seq Number	: 3043151							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.95	4.95	mg/kg	03.08.18 16.29	U	1

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	03.08	18 10.00	В	asis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.08.18 12.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	1540	15.0		mg/kg	03.08.18 12.22		1
Oil Range Hydrocarbons (ORO)	PHCG2835	82.7	15.0		mg/kg	03.08.18 12.22		1
Total TPH	PHC635	1620	15.0		mg/kg	03.08.18 12.22		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	03.08.18 12.22		
o-Terphenyl	5	84-15-1	129	%	70-135	03.08.18 12.22		





LT Environmental, Inc., Arvada, CO

Sample Id:SS02Lab Sample Id:578604-002	Matrix: Date Collecte	Soil d: 03.06.18 14.10	Date Receive	ed:03.08.18 09.15
Analytical Method: BTEX by EPA 8021B Tech: ALJ			Prep Method % Moisture:	: SW5030B
Analyst:ALJSeq Number:3043201	Date Prep:	03.08.18 16.45	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	75	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS03		Matrix:	Soil		Date Received:03.	08.18 09.1	5
Lab Sample	Id: 578604-003		Date Colle	ected: 03.06.18 14.20				
Analytical M	lethod: Inorganic Anion	s by EPA 300				Prep Method: E30	00P	
Tech:	OJS					% Moisture:		
Analyst:	OJS		Date Prep	: 03.08.18 13.00		Basis: We	t Weight	
Seq Number	: 3043151							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.91	4.91	mg/kg	03.08.18 16.34	U	1

Analytical Method: TPH by SW801	5 Mod				Р	Prep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	o: 03.08.	18 10.00	В	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.08.18 12.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	1700	14.9		mg/kg	03.08.18 12.49		1
Oil Range Hydrocarbons (ORO)	PHCG2835	89.9	14.9		mg/kg	03.08.18 12.49		1
Total TPH	PHC635	1790	14.9		mg/kg	03.08.18 12.49		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	111-85-3	107	%	70-135	03.08.18 12.49		
o-Terphenyl	8	34-15-1	130	%	70-135	03.08.18 12.49		





LT Environmental, Inc., Arvada, CO

Sample Id: SS03	Matrix:	Soil	Date Receive	ed:03.08.18 09.15
Lab Sample Id: 578604-003	Date Collecte	d: 03.06.18 14.20		
Analytical Method: BTEX by EPA 8021B			Prep Method	: SW5030B
Tech: ALJ			% Moisture:	
Analyst: ALJ	Date Prep:	03.08.18 16.45	Basis:	Wet Weight
Seq Number: 3043201				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	80	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample I	SS04 d: 578604-004		Matrix: Date Collec	Soil cted: 03.06.18 14.30		Date Received:03.08.18 09.15			
Analytical Me Tech: Analyst: Seq Number:	ethod: Inorganic Anio OJS OJS 3043151	ns by EPA 300	Date Prep:	03.08.18 13.00		Prep Method: E30 % Moisture: Basis: We	00P t Weight		
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	<4.93	4.93	mg/kg	03.08.18 16.39	U	1	

Analytical Method: TPH by SW8013	5 Mod		Prep Method: TX100				1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 03.08	18 10.00	В	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.08.18 13.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	155	15.0		mg/kg	03.08.18 13.17		1
Oil Range Hydrocarbons (ORO)	PHCG2835	26.4	15.0		mg/kg	03.08.18 13.17		1
Total TPH	PHC635	181	15.0		mg/kg	03.08.18 13.17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	03.08.18 13.17		
o-Terphenyl		84-15-1	118	%	70-135	03.08.18 13.17		





LT Environmental, Inc., Arvada, CO

Sample Id:SS04Lab Sample Id:578604-004	Matrix: Date Collecto	Soil ed: 03.06.18 14.30	Date Receive	ed:03.08.18 09.15
Analytical Method: BTEX by EPA 8021B Tech: ALJ			Prep Methoo % Moisture:	l: SW5030B
Analyst: ALJ	Date Prep:	03.08.18 16.45	Basis:	Wet Weight
Seq Number: 3043201				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	127	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	89	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id	SS05 l: 578604-005		Matrix: Date Collec	Soil eted: 03.06.18 14.40		Date Received:03.0)8.18 09.1:	5
Analytical Me Tech: Analyst:	thod: Inorganic Anions OJS OJS	s by EPA 300	Date Prep:	03.08.18 13.00		Prep Method: E30 % Moisture: Basis: We	00P t Weight	
Seq Number:	3043151						C	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.92	4.92	mg/kg	03.08.18 16.45	U	1

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	Moisture:		
Analyst: ARM		Date Prep	p: 03.08	18 10.00	В	asis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.8	74.8		mg/kg	03.08.18 13.45	U	5
Diesel Range Organics (DRO)	C10C28DRO	3900	74.8		mg/kg	03.08.18 13.45		5
Oil Range Hydrocarbons (ORO)	PHCG2835	604	74.8		mg/kg	03.08.18 13.45		5
Total TPH	PHC635	4500	74.8		mg/kg	03.08.18 13.45		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	03.08.18 13.45		
o-Terphenyl		84-15-1	79	%	70-135	03.08.18 13.45		





LT Environmental, Inc., Arvada, CO

Sample Id: SS05 Lab Sample Id: 578604-005	Matrix: Soil Date Collected: 03.06.	Date Received:03.08.18 8 14.40	3 09.15
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030 % Moisture:)B
Analyst:ALJSeq Number:3043201	Date Prep: 03.08.	8 16.45 Basis: Wet We	ight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	56	%	70-130	03.09.18 10.55	**	
4-Bromofluorobenzene		460-00-4	102	%	70-130	03.09.18 10.55		



LABORATORIES

Flagging Criteria



Page 81 of 100

- 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: 8/20/2024 8:27:09 AM



QC Summary 578604

LT Environmental, Inc.

Golden 8 Federal CTB

Analytical Method:	Inorganic Anions by	y EPA 300						Pre	ep Method	l: E30	90P	
Seq Number:	3043151			Matrix:	Solid				Date Prep	o: 03.	08.18	
MB Sample Id:	7640419-1-BLK		LCS San	nple Id:	7640419-1	I-BKS		LCSE	Sample l	[d: 764	40419-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD F	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3043151			Matrix:	Soil				Date Pre	p: 03.0	08.18	
Parent Sample Id:	578424-003		MS San	nple Id:	578424-00)3 S		MSI	O Sample	Id: 578	424-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	103	249	360	103	360	103	90-110	0	20	mg/kg	03.08.18 14:41	

Analytical Method:	Inorganic Anions b	y EPA 300						Pı	ep Metho	od: E30	0P	
Seq Number:	3043151			Matrix:	Soil				Date Pre	ep: 03.0	8.18	
Parent Sample Id:	578425-005		MS Sar	nple Id:	578425-00)5 S		MS	D Sample	e Id: 5784	425-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<4.97	249	250	100	250	100	90-110	0	20	mg/kg	03.08.18 15:55	

Analytical Method:	TPH by S	W8015 M	od]	Prep Method	i: TXI	005P	
Seq Number:	3043122				Matrix:	Solid				Date Prep	p: 03.0	07.18	
MB Sample Id:	7640359-1	-BLK		LCS Sar	nple Id:	7640359-	1-BKS		LC	SD Sample	Id: 764	0359-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	986	99	971	97	70-135	2	35	mg/kg	03.08.18 02:51	
Diesel Range Organics ((DRO)	<15.0	1000	1020	102	996	100	70-135	2	35	mg/kg	03.08.18 02:51	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		103		1	10		107		7	70-135	%	03.08.18 02:51	
o-Terphenyl		103		1	09		104		2	70-135	%	03.08.18 02:51	

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

Golden 8 Federal CTB

Analytical Method: Seq Number:	3043122		lod	Matrix: Soil MS Sample Id: 578424-001 S				Prep Method: TX1005P Date Prep: 03.07.18 MSD Sample Id: 578424-001 SD					
Parent Sample Id:	578424-00	01		MS Sar	nple Id:	578424-00)1 S		MS	SD Sample I	ld: 578	424-001 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	997	1030	103	1040	104	70-135	1	35	mg/kg	03.08.18 04:10	
Diesel Range Organics	(DRO)	<15.0	997	1050	105	1090	109	70-135	4	35	mg/kg	03.08.18 04:10	
Surrogate					AS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	17		117		7	0-135	%	03.08.18 04:10	
o-Terphenyl				1	09		112		7	0-135	%	03.08.18 04:10	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3043201 7640464-1-BLK	-	Matrix: Solid CS Sample Id: 7640464-1-BKS					Prep Method: SW5030B Date Prep: 03.08.18 LCSD Sample Id: 7640464-1-BSD				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0883	87	0.0848	84	70-130	4	35	mg/kg	03.09.18 10:55	
Toluene	< 0.00201	0.101	0.0900	89	0.0930	92	70-130	3	35	mg/kg	03.09.18 10:55	
Ethylbenzene	< 0.00201	0.101	0.0937	93	0.0974	96	70-130	4	35	mg/kg	03.09.18 10:55	
m,p-Xylenes	< 0.00402	0.201	0.182	91	0.189	94	70-130	4	35	mg/kg	03.09.18 10:55	
o-Xylene	< 0.00201	0.101	0.0921	91	0.0957	95	70-130	4	35	mg/kg	03.09.18 10:55	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	85		10	01		95			70-130	%	03.09.18 10:55	
4-Bromofluorobenzene	118		1	30		122			70-130	%	03.09.18 10:55	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3043201 578604-005	Matrix: Soil MS Sample Id: 578604-005 S				Prep Method: SW5030B Date Prep: 03.08.18 MSD Sample Id: 578604-005 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0818	82	0.0884	88	70-130	8	35	mg/kg	03.09.18 10:55	
Toluene	< 0.00199	0.0996	0.0659	66	0.0780	78	70-130	17	35	mg/kg	03.09.18 10:55	Х
Ethylbenzene	< 0.00199	0.0996	0.0601	60	0.0745	75	70-130	21	35	mg/kg	03.09.18 10:55	Х
m,p-Xylenes	< 0.00398	0.199	0.112	56	0.143	72	70-130	24	35	mg/kg	03.09.18 10:55	Х
o-Xylene	< 0.00199	0.0996	0.0556	56	0.0717	72	70-130	25	35	mg/kg	03.09.18 10:55	Х
Surrogate				AS Rec	MS Flag	MSD %Ree		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			-	78		70		7	70-130	%	03.09.18 10:55	
4-Bromofluorobenzene			1	24		124		7	70-130	%	03.09.18 10:55	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery 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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Received by	CD: 8/20	/2024 8	27:05		0		-	-	-	1		_										1	Page 8	4 of	100
ss or expenses incurred by the Client if such lass e enforced unless previously negotiated under a	Relinquished by: 26 Nolice: Signature of this document and rolico	Relinquished by Sympler: Relinquished by:	3 Day EMERGENCY STANDARD TAT TAT Starts Day received by Lab, if received by 5:00 nm	2 Day EMERGENCY	Next Day EMERGENCY	Furnaround Time (Business days)	10	9	8	7		5 SSO2		3 SCO2		1055	No. Field ID / Point of Collection	Project Contact: Adrian Baker Samplers's Name: Aaron Williamson	3300 N. A Street Bldg 1 Suite 103 Midland TX 79705 Email: Pho Abaker@ltenv.com 432-	LTE / Permian Company Address:	Client / Reporting Information Company Name / Branch:		Dallas Texas (214-902-0300)	Setting the Standard since 1990 Stafford Texas 1981 240 4000	LABORATORIES
sare due to circurstances beyond th sub due to circurstances beyond th fully exocuted client contract.	Date T	SAMPLE CUSTODY MUST BE D Date Time: 3-7-15	STANDARD TAT	Contract TAT	5 Day TAT	5									SW			er	dland TX 79705 Phone No: 432-704-5178		on			06	RIES
Received by be enforced unless previously negotiated under a fully exocuted client contrast availed purchase order from client company to Xenco, its atfiliates and subcontract. CP: (0-6; -0.2°C) (6-23; +0.2°C) CP: (0-62; +0.2°C) Corrected Temp: 5,1	iquished By: Date T	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: Received By: Relinquished By: Date Time: 3.7.10 1 1 Received By: Relinquished By: Date Time:	TRRP Checklist	Level III Std QC+ Forms TRRP Level IV	Level II Std QC Level IV (Full Data Pkg /raw data)	Data Deliverable Information					A A A A A A A A A A A A A A A A A A A	1430	1420	1410 1 1 0141	I S I	Date Date Time Matrix bottles HCI NaOH/Z Acetate HNO3 H2SO4 NaOH VaHSO4 FOH E Btex E	Collection Number of preserved	nod 802 ⁻	5	Project Namel Number: Golden & Federal CTB	oject Information	WWW XENCO.COM Xenco Quote #	San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251)	Page Of	CHAIN OF CUSTODY
st of samples and shall not a not analyzed will be invoiced	115	771		07 610 00	- 769										Field Comments		O = OII WW= Waste Water A = Air	SW = Surface water SL = Sludge OW = Ocean/Sea Water WI = Wine	DW = Drinking Water P = Product	W = Water S = Solito-Jonation	Analytical Information C C C C C Matrix Codes	Xanco Job# RUSSA	a (480-355-0900)		

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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: 03/08/2018 09:15:00 AM Temperature Measuring device used : R8 Work Order #: 578604 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? 5.1 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when 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 TPH in bulk container #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)?

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 03/08/2018

Yes

N/A

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 03/08/2018

Released to Imaging: 8/20/2024 8:29:30 AM

Analytical Report 578893

for LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal Battery #1

12-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), 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 (T104704400-18-14) 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)





12-MAR-18

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

Reference: XENCO Report No(s): **578893** Golden 8 Federal Battery #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) 578893. 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. 578893 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,

Jession Vermer

Jessica Kramer Project Assistant

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





Sample Id

SS06

Sample Cross Reference 578893



LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

Matr	ix Date Collected	Sample Depth	Lab Sample Id
S	03-09-18 13:00) 6 In	578893-001

Released to Imaging:	8/20/2024	8:29:30 AM





CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Golden 8 Federal Battery #1

Project ID: Work Order Number(s): 578893

12-MAR-18 Report Date: Date Received: 03/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3043357 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 578893

LT Environmental, Inc., Arvada, CO Project Name: Golden 8 Federal Battery #1



Date Received in Lab:Sat Mar-10-18 12:21 pmReport Date:12-MAR-18Project Manager:Jessica Kramer

		1	1	1		1
Lab Id:	578893-001					
Field Id:	SS 06					
Depth:	6- In					
Matrix:	SOIL					
Sampled:	Mar-09-18 13:00					
Extracted:	Mar-10-18 12:30					
Analyzed:	Mar-11-18 09:24					
Units/RL:	mg/kg RL					
	<0.00200 0.00200					
	<0.00200 0.00200					
	<0.00200 0.00200					
	<0.00401 0.00401					
	< 0.00200 0.00200					
	<0.00200 0.00200					
Extracted:	Mar-12-18 09:00					
Analyzed:	Mar-12-18 10:37					
Units/RL:	mg/kg RL					
	<4.90 4.90					
Extracted:	** ** ** **					
Analyzed:	Mar-11-18 02:31					
Units/RL:	mg/kg RL					
	<15.0 15.0					
	63.6 15.0					
	63.6 15.0					
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: SS06 Depth: 6- In Matrix: SOIL Sampled: Mar-09-18 13:00 Extracted: Mar-10-18 12:30 Analyzed: Mar-11-18 09:24 Units/RL: mg/kg RL <0.00200	Field Id: SS06 Depth: 6- In Matrix: SOIL Sampled: Mar-09-18 13:00 Extracted: Mar-10-18 12:30 Analyzed: Mar-11-18 09:24 Units/RL: mg/kg RL <0.00200	Field Id: SS06 Depth: 6- In Matrix: SOIL Sampled: Mar-09-18 13:00 Extracted: Mar-10-18 12:30 Analyzed: Mar-11-18 09:24 Units/RL: mg/kg RL < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 0.00200 0.00200 < 4.90 4.90 $Mar-12-18$ 0.97 $Mar-11-18$ 0.231 $Units/RL:$ mg/kg RL $Mar-11-1802:31$ Units/RL: mg/kg RL $Mar-150$ 15.0 < 15.0 <t></t>	Field Id: SS06 Depth: 6- In Matrix: SOIL Sampled: Mar-09-18 13:00 Extracted: Mar-10-18 12:30 Analyzed: Mar-11-18 09:24 Units/RL: mg/kg RL <0.00200	Field Id: SS06 Depth: 6-In Matrix: SOIL Sampled: Mar-09-18 13:00 Extracted: Mar-10-18 12:30 Analyzed: Mar-11-18 09:24 Units/RL: mg/kg RL <0.00200

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

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

fession kramer

Jessica Kramer Project Assistant

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LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

Sample Id: SS06 Lab Sample Id: 578893-00	1	Matrix: Date Collec	Soil ted: 03.09.18 13.00		Date Received:03.10.18 12.2 Sample Depth: 6 In			
Analytical Method: Inorga	nic Anions by EPA 300				Prep Method: E30)0P		
Tech: OJS					% Moisture:			
Analyst: OJS		Date Prep:	03.12.18 09.00		Basis: We	t Weight		
Seq Number: 3043446								
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	<4.90	4.90	mg/kg	03.12.18 10.37	U	1	

Analytical Method: TPH by SW801 Tech: ARM Analyst: ARM Seq Number: 3043414	5 Mod	Date Pre	p: 03.10	.18 12.00	9	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.11.18 02.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	63.6	15.0		mg/kg	03.11.18 02.31		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.11.18 02.31	U	1
Total TPH	PHC635	63.6	15.0		mg/kg	03.11.18 02.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	03.11.18 02.31		
o-Terphenyl		84-15-1	97	%	70-135	03.11.18 02.31		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

Sample Id:SS06Lab Sample Id:578893-001	Matrix: Soil Date Collected: 03.09.18 13.00	Date Received:03.10.18 12.21 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3043357	Date Prep: 03.10.18 12.30	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	03.11.18 09.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	03.11.18 09.24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	03.11.18 09.24		
1,4-Difluorobenzene		540-36-3	84	%	70-130	03.11.18 09.24		



LABORATORIES

Flagging Criteria



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

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LT Environmental, Inc.

Golden 8 Federal Battery #1

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3043446	Matrix: Solid				Date Prep: 03.12.18						
MB Sample Id:	7640586-1-BLK		LCS Sar	nple Id:	7640586-	1-BKS	LCSD Sample Id: 7640)586-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD I	RPD Limi	t Units	Analysis Date	Flag
Chloride	< 5.00	250	261	104	261	104	90-110	0	20	mg/kg	03.12.18 09:31	

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30)0P	
Seq Number:	3043446	Matrix: Soil						Date Pre	p: 03.	12.18		
Parent Sample Id:	578266-004	MS Sample Id: 578266-004 S MSD Sample Id:				Id: 578	578266-004 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	<4.99	250	253	101	254	100	90-110	0	20	mg/kg	03.12.18 11:46	

Analytical Method:	Inorganic Anions by	y EPA 300						Pı	ep Meth	od: E30	0P	
Seq Number:	3043446			Matrix:	Soil				Date Pr	ep: 03.1	2.18	
Parent Sample Id:	578891-004	MS Sar	nple Id:	578891-00	04 S	MSD Sample Id				578891-004 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	11.2	246	258	100	258	100	90-110	0	20	mg/kg	03.12.18 10:26	

Analytical Method:	TPH by S	W8015 M	od							Prep Method	l: TXI	005P	
Seq Number:	3043414				Matrix:	Solid				Date Prep	p: 03.1	0.18	
MB Sample Id:	7640553-1	-BLK		LCS Sar	nple Id:	7640553-	1-BKS		LC	SD Sample	Id: 764	0553-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	957	96	954	95	70-135	0	35	mg/kg	03.10.18 16:37	
Diesel Range Organics	(DRO)	<15.0	1000	1010	101	1020	102	70-135	1	35	mg/kg	03.10.18 16:37	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		95		1	03		108			70-135	%	03.10.18 16:37	
o-Terphenyl		97		1	03		106			70-135	%	03.10.18 16:37	

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

Golden 8 Federal Battery #1

Analytical Method: Seq Number:	TPH by S 3043414	W8015 M	lod		Matrix:	Soil			Prep Method: TX1005P Date Prep: 03.10.18					
Parent Sample Id:	578129-02	21		MS San	nple Id:	578129-02	21 S		MS	SD Sample	Id: 578	129-021 SD		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbons (GRO) <15.0 998		964	97	975	98	70-135	1	35	mg/kg	03.10.18 17:56				
Diesel Range Organics	(DRO)	<15.0	998	1070	107	1080	108	70-135	1	35	mg/kg	03.10.18 17:56		
Surrogate		MS %Rec		MS MSI Flag %Re			_	limits	Units	Analysis Date				
1-Chlorooctane				1	05		109		7	0-135	%	03.10.18 17:56		
o-Terphenyl				1	04		104		7	0-135	%	03.10.18 17:56		

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3043357 7640559-1-BLK	1B	LCS San	Matrix: nple Id:	Solid 7640559-	1-BKS			Prep Method Date Prep SD Sample	p: 03.1	5030B 0.18 0559-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0790	78	0.0735	74	70-130	7	35	mg/kg	03.10.18 22:25	
Toluene	< 0.00202	0.101	0.0845	84	0.0783	78	70-130	8	35	mg/kg	03.10.18 22:25	
Ethylbenzene	< 0.00202	0.101	0.0942	93	0.0897	90	70-130	5	35	mg/kg	03.10.18 22:25	
m,p-Xylenes	< 0.00403	0.202	0.185	92	0.178	89	70-130	4	35	mg/kg	03.10.18 22:25	
o-Xylene	< 0.00202	0.101	0.0937	93	0.0910	91	70-130	3	35	mg/kg	03.10.18 22:25	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	85		8	38		90			70-130	%	03.10.18 22:25	
4-Bromofluorobenzene	98		1	14		111			70-130	%	03.10.18 22:25	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3043357 578592-004	1B	Matrix: Soil Prep Method: SW5030B MS Sample Id: 578592-004 S Date Prep: 03.10.18									
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0663	66	0.0629	63	70-130	5	35	mg/kg	03.10.18 23:03	Х
Toluene	< 0.00200	0.100	0.0526	53	0.0525	53	70-130	0	35	mg/kg	03.10.18 23:03	Х
Ethylbenzene	< 0.00200	0.100	0.0272	27	0.0384	38	70-130	34	35	mg/kg	03.10.18 23:03	Х
m,p-Xylenes	< 0.00401	0.200	0.0530	27	0.0707	35	70-130	29	35	mg/kg	03.10.18 23:03	Х
o-Xylene	< 0.00200	0.100	0.0283	28	0.0372	37	70-130	27	35	mg/kg	03.10.18 23:03	Х
Surrogate				AS Rec	MS Flag	MSD %Ree		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	86		92		7	0-130	%	03.10.18 23:03	
4-Bromofluorobenzene			1	03		106		7	0-130	%	03.10.18 23:03	

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

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Final 1.000

Received by OCD: 8/20/2024 8:27:09 AM



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: 03/10/2018 12:21:00 PM Temperature Measuring device used : R8 Work Order #: 578893 Sample Receipt Checklist #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 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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

#18 Water VOC samples have zero headspace?

Katie Lowe

Date: 03/10/2018

N/A

Comments

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 03/12/2018

Bratcher, Mike, EMNRD

From:	Bratcher, Mike, EMNRD
Sent:	Monday, May 14, 2018 2:00 PM
То:	'Ashley Ager'; Weaver, Crystal, EMNRD
Cc:	stucker@blm.gov; Adrian Baker; Littrell, Kyle
Subject:	RE: Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612,
-	2RP-4017, 2RP-4601

RE: XTO * Golden 8 Fed 1 (CTB) * 2RP-521,633,2018,2439,3612,4017, & 4601 * DOR: 1/14/10, 2/16/11, 11/25/13, 8/12/14, 2/1/16, 11/26/16, & 1/18/18

Ashley,

Your proposal for additional delineation and remediation is approved. Federal sites will require like approval from BLM.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Ashley Ager <aager@ltenv.com>
Sent: Friday, March 23, 2018 4:56 PM
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: stucker@blm.gov; Adrian Baker <abaker@ltenv.com>; Littrell, Kyle <Kyle_Littrell@xtoenergy.com>
Subject: Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Crystal,

Please find attached a work plan for addressing historic and recent releases at the Golden 8 Federal Central Tank Battery. The report includes preliminary results from initial surface sampling and proposes additional sampling and remediation work.

The work plan covers the following releases at the location: 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Please let me know if you have any questions and have a nice weekend.

Ashley

Ashley Ager, M.S., P.G. Senior Geologist/Vice President of Regional Offices



LT Environmental, Inc. 848 East 2nd Avenue Durango, Colorado 81301 (970) 385-1096 office (970) 946-1093 mobile www.ltenv.com

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Please consider the environment before printing this e-mail.

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:
BOPCO, L.P.	260737
6401 Holiday Hill Rd	Action Number:
Midland, TX 79707	375439
	Action Type:
	[IM-SD] Admin Order Support Doc (ENV) (IM-BAO)

CONDITIONS

Created By	Condition	Condition Date
bhall	Historic documentation upload	8/20/2024

Action 375439

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