District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

OIL CONS. DIV DIST. 3
MAY 18 2017

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 258-1607**
Facility Name: **San Juan 29-6 Unit 108M**	Facility Type: **Gas Well**

Surface Owner **Federal**	Mineral Owner **Federal (NMSF 078426)**	API No. **3003927536**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	**31**	**29N**	**06W**	**2320**	**North**	**1155**	**West**	**Rio Arriba**

Latitude 36.68317 Longitude -107. 50916

NATURE OF RELEASE

Type of Release **Condensate & Produced Water**	Volume of Release **46bbl & 2bbl**	Volume Recovered **380 c/yds**
Source of Release **Production Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **11/14/16/ @ 12:00 pm**
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? **BLM (W. Thomas) & OCD (V. Fields)**	
By Whom? **Lisa Hunter**	Date and Hour **November 15, 2016 @ 8:46 a.m. & 8:50 a.m. via phone Email @ 8:58 a.m.**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.* **Approximately 46 bbls of condensate and 2 bbls produced water released from Production Tank due to small corrosion hole six inches from bottom of tank. Zero bbls recovered. Release remained in earthen bermed area and on location. Well is shut in.**

Describe Area Affected and Cleanup Action Taken.*
Risk Rank: 100ppm. Excavation terminated at 33' x 30' x 8-10' Deep. Approximately 380 c/yds of contaminated soil and sandstone was transported to IEI Land Farm. Analytical results were below the regulatory standards for the walls, and a total TPH of 210 ppm and total BTEX is 5.78 ppm for the base. COPC has excavated to the maximum depth extent practicable due to hard, dense stone at approximately 10ft deep. With the excavation terminating at hard rock, and a very low BTEX (5.78 ppm), COPC believes the residual contaminates do not pose a present or foreseeable threat or an environmental risk to water, humans or animals. Approval to spray potassium permanganate and backfill was received by NMOCD April 6, 2017. The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Lisa Hunter**	
Title: **Field Environmental Specialist**	Approval Date: 6/22/2017 Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval: — Attached ☐
Date: **May 11, 2017** Phone: **(505) 258-1607**	

* Attach Additional Sheets If Necessary

NVF1632131O3

51

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
848 East Second Avenue
Durango, Colorado 81301
T 970.385.1096

May 10, 2017

Ms. Lisa Hunter
ConocoPhillips Company
3401 East 30th Street
Farmington, New Mexico 87401

RE: San Juan 29-6 #108M Spill Remediation Report
Case Number NVF1632131303
ConocoPhillips Company
Rio Arriba County, New Mexico

Dear Ms. Hunter:

LT Environmental, Inc. (LTE), on behalf of ConocoPhillps Company (COPC), conducted a spill release assessment and excavation clearance at the COPC San Juan 29-6 #108M (Site). The release consisted of 46 barrels (bbl) of condensate and 2 bbl of produced water due to a small corrosion hole near the bottom of the production tank. The purpose of the investigation was to determine the lateral and vertical extent of the release, characterize the impact, and remediate to the applicable state regulatory standards.

Site Description and History

The Site is in the southwest quarter of the northwest quarter of Section 31, Township 29 North, and Range 6 West in Rio Arriba County, New Mexico, on Delgadita Mesa near San Rafael Canyon, as depicted on Figure 1. The Site is located at N36.68317, W107.50916 at 6,778 feet above mean sea level (amsl). A cathodic report for the Site dated March 2005 reported depth to water at 40 feet below ground surface (bgs). Based on the cathodic report, the New Mexico Oil Conservation Division (NMOCD) ranking criteria triggers the following remediation action levels: 100 parts per million (ppm) for volatile organic compounds (VOCs), 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX (benzene, toluene, ethylbenzene, and xylenes), and 100 mg/kg for total petroleum hydrocarbons (TPH).

On November 14, 2016, COPC personnel discovered an approximately 6-inch corrosion hole near the bottom of a 300 bbl production tank which resulted in the release of approximately 48 bbl, consisting of approximately 46 bbl of condensate and 2 bbl of produced water. The following day, COPC reported the release to the NMOCD on an initial *C-141 Release Notification and Corrective Action Form*. In response to the release, COPC contractors hydro-vacuumed standing condensate from the shallow soil profile around the production tank. Sandstone was encountered less than one foot bgs near the production tank, except for a small area that was previously trenched within the sandstone during facility setup and used to bury the communication line from the below-grade tank to the production tank. Within the trench, sandstone was encountered at approximately 3 feet bgs.

The production tank was emptied and placed on a Visqueen liner away from the impacted area. The below-grade tank and separator remained in place throughout site activities.

Initial Assessment Soil Sampling

LTE followed proper one-call notification with New Mexico 811 in accordance with New Mexico Administrative Code (NMAC) 18.60.6. The facility was pre-marked and cleared by all parties. During the initial site investigation on December 2, 2016, LTE advanced eight soil boring holes in and around the release location with a hand auger and collected nine samples for field screening. All soil borings were terminated on sandstone between 6 inches and 3 feet bgs. Samples were field screened for VOCs with a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp per methods in accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, August 13, 1993. Based on elevated field VOC results, the soil sample with the highest value, BH-3 at 0.5 feet bgs with 4,502 ppm, was submitted for confirmation laboratory analysis. The soil sample was collected directly into a pre-cleaned glass jar, labeled with location, date, time, sampler, and method of analysis and immediately placed on ice. The sample was shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analytical Laboratory Sciences (HEAL) in Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (USEPA) Method 8021 and total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015. An additional soil sample, BH-4 at 0.5 feet bgs, was submitted for delineation and characterization purposes. The samples were shipped, received, and analyzed within the required holding times. A site map with soil boring locations and field and laboratory results are depicted on Figure 2. A photograph log is included as Attachment 1. Based on field screening and laboratory results, the area directly beneath and within 30-foot radius were recommended for further excavation.

Excavation Oversight and Sampling

Based on field and laboratory results from the initial investigation, COPC conducted excavation activities at the Site. On March 16, 2017, LTE collected soil composite samples SC-1 through SC-7 from the initial excavation limits. Soil samples SC-1 and SC-2 were collected using a decontaminated shovel from light brown, poorly graded, fine grained sand directly on top of sandstone. Soil samples SC-3 through SC-7 were collected using an excavator from light tan to brown to gray, medium grained sandstone.

Excavation of the sandstone unit continued March 27 and March 28, 2017 due to results of the initial excavation sampling. On March 28, 2017, composite soil samples SC-8 through SC-12 were collected from the final excavation extents and submitted under the same preparation guidelines and laboratory analyses listed above. The excavation was 30 feet by 30 feet by 0.5 feet or within sandstone at 10 feet bgs.

Initial Assessment Soil Analytical Results

Two samples were collected and submitted for laboratory analysis from BH-3 and BH-4. These results indicated impact above NMOCD action levels within the berm juxtapose to the former production tank.

Excavation Clearance Soil Analytical Results

Excavation clearance samples were collected over the course of two sampling events. On March 16, 2017, composite soil samples (SC-1 through SC-7) of the initial excavation extents were collected from the walls of the excavation, the upper sandstone base at 0.5 feet bgs, and the inset trench on sandstone at 3 feet bgs. Laboratory analytical results for soil samples SC-1 and SC-2 down to 0.5 feet bgs indicated no hydrocarbon impacts. However, laboratory analytical results for soil samples SC-3 through SC-7 ranged up to 403.2 mg/kg for total BTEX (SC-3) and 5,170 mg/kg for TPH (SC-5) and indicated additional excavation activities were required.

On March 27, 2017, composite soil samples SC-8 through SC-12 were collected from newly established excavation extents based on field observations and screening results. Laboratory analytical results for soil samples SC-8 and SC-12 indicated no concentrations of TPH or BTEX exceeded NMOCD action levels, except soil sample SC-9, which had a TPH (as GRO and DRO) concentration of 210 mg/kg and a VOC PID value of 112 mg/kg.

A site map with composite sample locations and results are presented on Figure 3 and Figure 4. Field data are included in Table 1, and the laboratory analytical results are presented in Table 2. The complete HEAL laboratory analytical reports are included as Attachment 2.

Conclusions

Borehole BH-1 through BH-8 were advanced in and around the release area to a depth of 0.5 feet to 3 feet bgs. Groundwater was not encountered, and impact to shallow soil was limited to the area near the corrosion hole, as evidenced by odor and elevated field screening results. At that time, total depth within the underlying sandstone was indeterminable. Based on field screening and laboratory analytical results, LTE recommended traditional dig and haul remediation methods followed by confirmation sampling as the most viable solution for the Site.

On March 16, 27, and 28, 2017, excavation activities determined the contamination migrated vertically within the underlying sandstone to approximately 10 feet bgs. Field and laboratory analytical results indicated four of the final walls were compliant with NMOCD action levels for VOCs, benzene, BTEX, and TPH, except for soil sample SC-9. The base of the excavation was compliant with NMOCD action levels for benzene and BTEX but exceeded the NMOCD action levels for TPH (as GRO, DRO, and MRO).

On April 6, 2017, Ms. Vanessa Field, with NMOCD, granted verbal and written permission for COPC to spray the base of the excavation with potassium permanganate and backfill for site closure (Attachment 3). The final extents of the excavation were 30 feet by 33 feet by 8 to 10 feet deep. No further action is recommended for the Site.

LTE appreciates the opportunity to provide this report to COPC. If you have any questions or comments, do not hesitate to contact me at (970) 385-1096 or via email at eskyles@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Emilee Skyles
Staff Geologist

Ashley Ager
Senior Geologist

Attachments:

Figure 1 – Site Location Map
Figure 2 – Site Map, Sample Locations, and Results
Figure 3 – Initial Excavation
Figure 4 – Final Excavation
Table 1 – Soil Field Screening Results
Table 2 – Soil Analytical Results
Attachment 1 – Photograph Log
Attachment 2 – Laboratory Analytical Reports
Attachment 3 – NMOCD Variance Approval

FIGURES

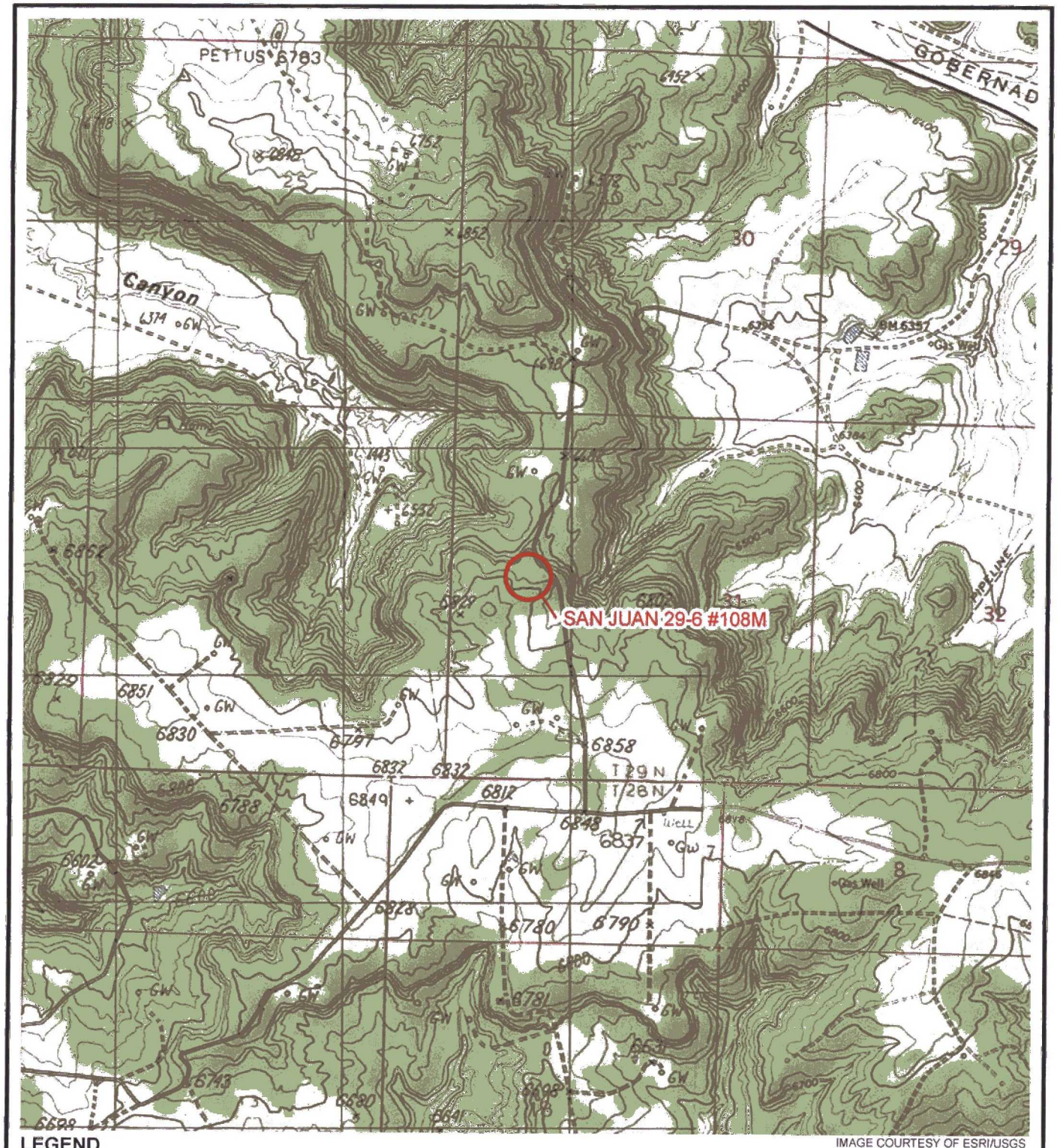


IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

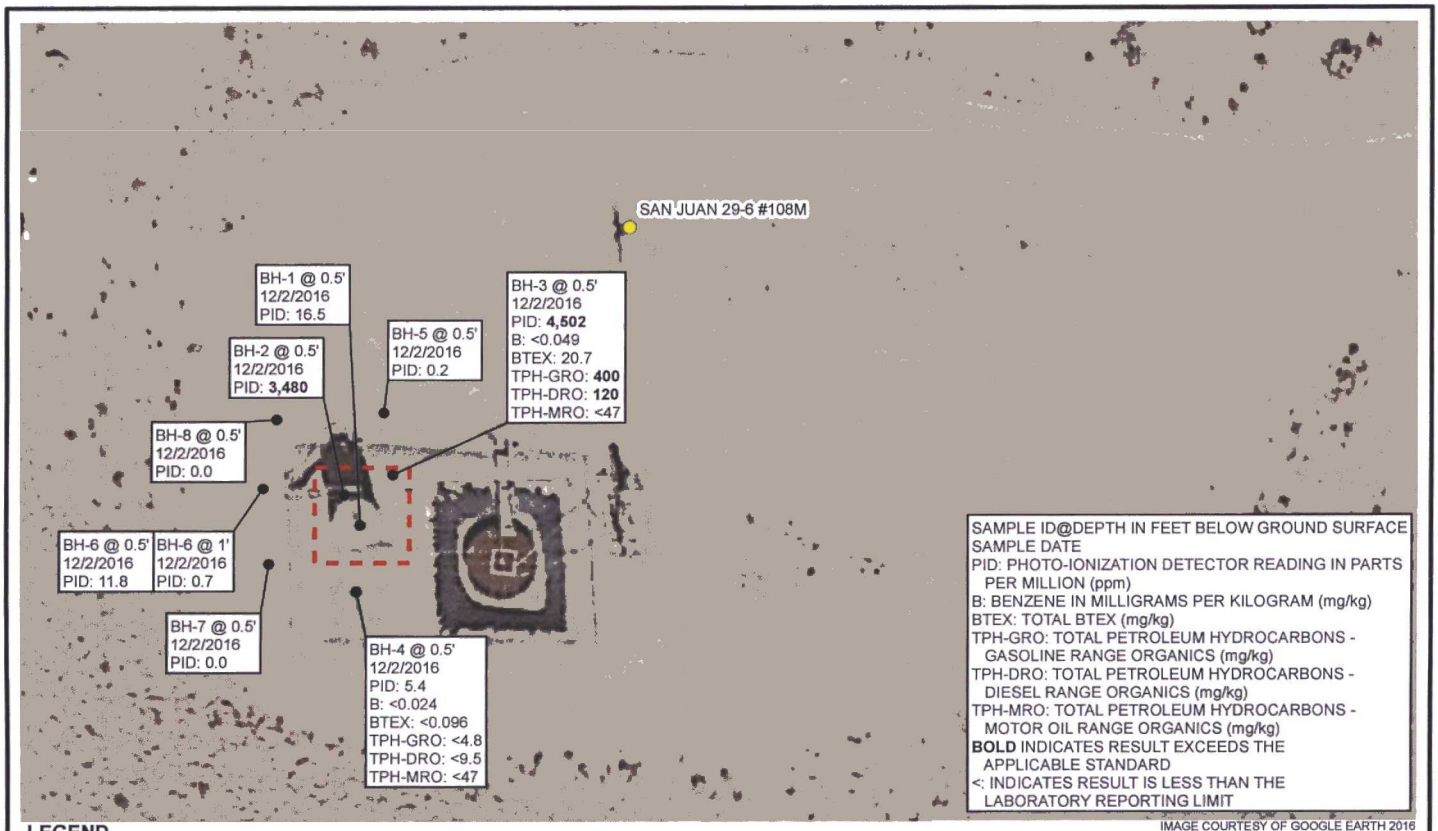
Feet

N

NEW MEXICO

FIGURE 1
SITE LOCATION MAP
SAN JUAN 29-6 #108M
SWNW SEC 31-T29N-R6W
RIO ARRIBA COUNTY, NEW MEXICO
CONOCOPHILLIPS

P:\CONOCO PHILLIPS\GIS\MXD\062016007_ SAN JUAN 29-6 #108M\062016007_FIG01_SL.mxd



LEGEND

- BOREHOLE
- WELLHEAD
- RECOMMENDED EXCAVATION AREA (20'X20'X0.5' OR TO SANDSTONE)

0 30 60
Feet

N

FIGURE 2
SITE MAP, SAMPLE LOCATIONS, AND RESULTS
SAN JUAN 29-6 #108M
SWNW SEC 31-T29N-R6W
RIO ARRIBA COUNTY, NEW MEXICO
CONOCOPHILLIPS

P:\CONOCO PHILLIPS\GIS\MXD\06\2016007_ SAN JUAN 29-6 #108M\06\2016007_FIG02_ANALY.mxd

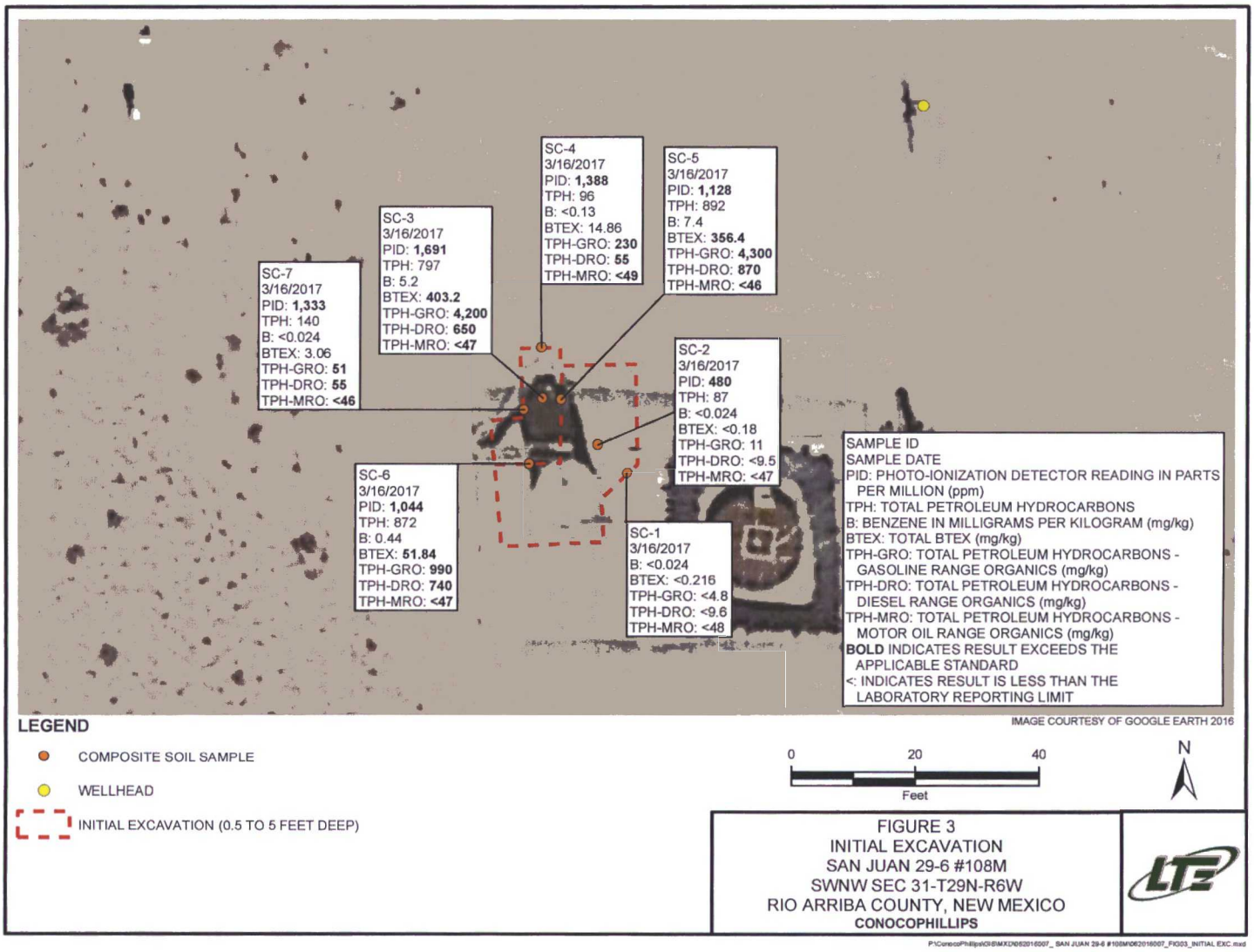


FIGURE 3
INITIAL EXCAVATION
SAN JUAN 29-6 #108M
SWNW SEC 31-T29N-R6W
RIO ARRIBA COUNTY, NEW MEXICO
CONOCOPHILLIPS

P:\ConocoPhillips\CP\MXD\052016007_ SAN JUAN 29-6 #108M\052016007_FIG03_INITIAL EXC.mxd

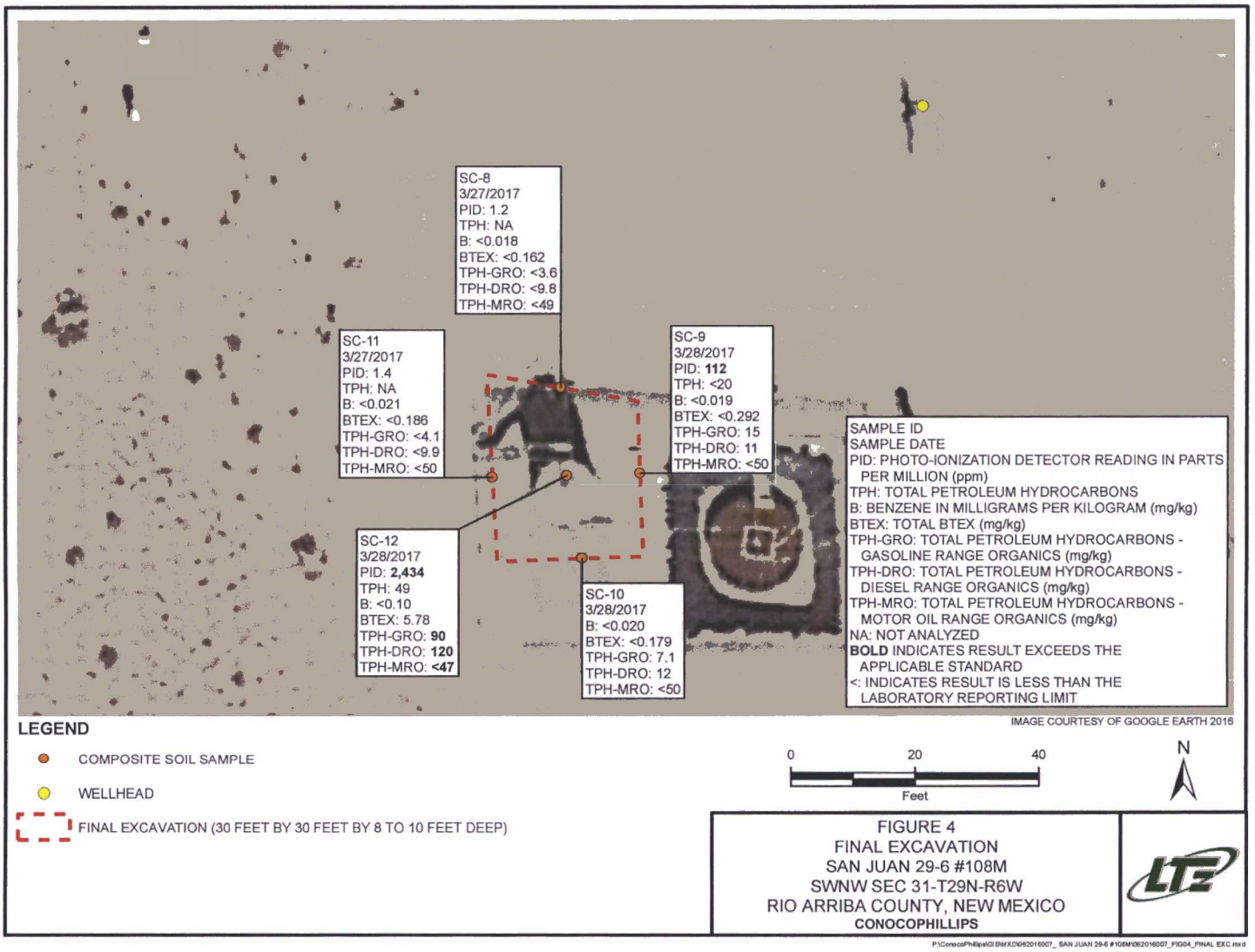


FIGURE 4
FINAL EXCAVATION
SAN JUAN 29-6 #108M
SWNW SEC 31-T29N-R6W
RIO ARRIBA COUNTY, NEW MEXICO
CONOCOPHILLIPS

P:\ConocoPhillips\GIS\MXD\062016007_ SAN JUAN 29-6 #108M\062016007_FIG04_FINAL EXC.mxd

TABLES

TABLE 1
SOIL FIELD SCREENING RESULTS

SAN JUAN 29-6 #108M
RIO ARRIBA COUNTY, NEW MEXICO
CONOCOPHILLIPS

Sample ID	Sample Date	PID - VOCs	Total TPH
BH-1 @ 0.5'	12/2/2016	16.5	NA
BH-2 @ 8"	12/2/2016	**3,480**	NA
BH-3 @ 0.5'	12/2/2016	**4,502**	NA
BH-4 @ 0.5'	12/2/2016	5.4	NA
BH-5 @ 0.5'	12/2/2016	0.2	NA
BH-6 @ 0.5'	12/2/2016	11.8	NA
BH-6 @ 1'	12/2/2016	0.7	NA
BH-7 @ 0.5'	12/2/2016	0.0	NA
BH-8 @ 0.5'	12/2/2016	0.0	NA
SC-1	3/16/2017	18.3	63
SC-2	3/16/2017	**480**	87
SC-3	3/16/2017	**1,691**	**797**
SC-4	3/16/2017	**1,388**	96
SC-5	3/16/2017	**1,128**	**892**
SC-6	3/16/2017	**1,044**	**872**
SC-7	3/16/2017	**1,333**	**140**
SC-8	3/27/2017	1.2	NA
SC-9	3/28/2017	**112**	<20
SC-10	3/28/2017	18.6	<20
SC-11	3/27/2017	1.4	NA
SC-12	3/28/2017	**2,434**	49
NMOCD Action Levels		**100**	**100**

NOTES:
NA - not analyzed
NMOCD - New Mexico Oil Conservation Division
TPH - total petroleum hydrocarbons
Bold indicates results exceeds applicable standard
< - indicates result is below the method detection limit

TABLE 2
SOIL ANALYTICAL RESULTS

SAN JUAN 29-6 #108M
RIO ARRIBA COUNTY, NEW MEXICO
CONOCOPHILLIPS

Sample ID	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
BH-3 @ 0.5'	12/2/2016	<0.049	20.7	**400**	**120**	<47
BH-4 @ 0.5'	12/2/2016	<0.024	<0.216	<4.8	<9.5	<47
SC-1	3/16/2017	<0.024	<0.216	<4.8	<9.6	<48
SC-2	3/16/2017	<0.024	<0.18	11	<9.5	<47
SC-3	3/16/2017	5.2	**403.2**	**4,200**	**650**	<47
SC-4	3/16/2017	<0.13	14.86	**230**	**55**	<49
SC-5	3/16/2017	7.4	**356.4**	**4,300**	**870**	<46
SC-6	3/16/2017	0.44	**51.84**	**990**	**740**	<47
SC-7	3/16/2017	<0.024	3.06	**51**	**55**	<46
SC-8	3/27/2017	<0.018	<0.162	<3.6	<9.8	<49
SC-9	3/28/2017	<0.019	<0.292	15	11	<50
SC-10	3/28/2017	<0.020	<0.179	7.1	12	<50
SC-11	3/27/2017	<0.021	<0.186	<4.1	<9.9	<50
SC-12	3/28/2017	<0.10	5.78	**90**	**120**	<47
NMOCD Action Levels		**10**	**50**	**100**		

NOTES:
BTEX - benzene, toluene, ethylbenzene, and total xylenes
DRO - diesel range organics (C11-C28)
GRO - gasoline range organics (C6-C10)
mg/kg - milligrams per kilogram
MRO - motor oil range organics (C28-C35)
NMOCD - New Mexico Oil Conservation Division
TPH - total petroleum hydrocarbons
Bold indicates results exceeds applicable standard
< - indicates result is below the laboratory detection limit

Emilee Skyles

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Sent: Thursday, April 6, 2017 1:51 PM
To: Hunter, Lisa
Cc: Smith, Cory, EMNRD; whitney thomas (l1thomas@blm.gov)
Subject: [EXTERNAL]RE: San Juan 29-6 #108M - Request to Backfill

Good afternoon Lisa,

Per our phone conversation this afternoon, OCD approved COPC to spray Potassium Permanganate and backfill.

OCD's approval for in-situ remediation does not relieve COPC of any other requirements imposed by other agencies.

Please let me know if you have any questions or concerns.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Hunter, Lisa [mailto:Lisa.Hunter@conocophillips.com]
Sent: Thursday, April 6, 2017 7:12 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: FW: San Juan 29-6 #108M - Request to Backfill

Vanessa –

As busy as you are, this may have gotten buried in your email. If you can take a look, and let me know if you approve the backfill request, that would be great.

Please let me know if you have any questions.

Thanks

Lisa Hunter
Field Environmental Specialist
ConocoPhillips Company

505.258.1607

Lisa.Hunter@cop.com

"Archaeology permits us to see small moments in time to witness events in everyday lives not recorded by history."

From: Hunter, Lisa
Sent: Monday, April 03, 2017 11:12 AM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us) <Vanessa.Fields@state.nm.us>; cory.smith@state.nm.us; whitney thomas (l1thomas@blm.gov) <l1thomas@blm.gov>
Subject: FW: San Juan 29-6 #108M - Request to Backfill

Attached please find the lab report for the San Juan 29-6 Unit 108M. Excavation completed at approximately 30ft x 33ft x 8-10ft deep. After digging through contaminated sandstone, the base terminated at its deepest point on hard, dense stone at approximately 10ft deep, and excavating is no longer possible. As the attached report and the table below shows all the walls on the excavation cleared. The base has a total TPH of 210 ppm and total BTEX is 5.78 ppm (Risk Rank: 100ppm).

With the excavation terminating at hard rock, and a very low BTEX (5.78 ppm), COPC believes the residual contaminates do not pose a present or foreseeable threat or an environmental risk to water, humans or animals, and therefore requests to backfill the excavation with clean soil.

Sample ID	Sample Location	OVM ppm	Field TPH mg/kg	TPH – GRO mg/kg	TPH – DRO mg/kg	TPH – MRO mg/kg	Benzene mg/kg	BTEX mg/kg
NMOCD Action Levels		**100**	**100**		**100**		**10**	**50**
SC-8	North Wall	1.2	27	<3.6	<9.8	<49	<0.018	<0.162
SC-9	East Wall	112	<13	15	11	<50	<0.019	0.292
SC-10	South Wall	18.6	<13	7.1	12	<50	<0.020	<0.179
SC-11	West Wall	1.4	24	<4.1	<9.9	<50	<0.021	<0.186
SC-12	Base @ 8-10'	2,434	49	**90**	**120**	**<47**	<0.10	5.78

Please let me know if you have any questions,

Thanks,

Lisa Hunter
Field Environmental Specialist
ConocoPhillips Company
505.258.1607
Lisa.Hunter@cop.com

"Archaeology permits us to see small moments in time to witness events in everyday lives not recorded by history."

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

December 08, 2016

Emilee Skyles
LTE
2243 Main Ave Suite 3
Durango, CO 81301
TEL:
FAX

RE: COPC SJ 29-6 #108M OrderNo.: 1612120

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/3/2016 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 www.hallenvironmental.com 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 qualifers 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1612120**
Date Reported: **12/8/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: COPC SJ 29-6 #108M
Lab ID: 1612120-001 **Matrix:** SOIL

Client Sample ID: BH-3 @ 0.5'
Collection Date: 12/2/2016 10:22:00 AM
Received Date: 12/3/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	120	9.3		mg/Kg	1	12/7/2016 5:43:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2016 5:43:08 PM
Surr: DNOP	80.9	70-130		%Rec	1	12/7/2016 5:43:08 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**
Benzene	ND	0.049		mg/Kg	2	12/6/2016 2:57:41 PM
Toluene	2.6	0.098		mg/Kg	2	12/6/2016 2:57:41 PM
Ethylbenzene	1.1	0.098		mg/Kg	2	12/6/2016 2:57:41 PM
Xylenes, Total	17	0.20		mg/Kg	2	12/6/2016 2:57:41 PM
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	2	12/6/2016 2:57:41 PM
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	2	12/6/2016 2:57:41 PM
Surr: Dibromofluoromethane	92.4	70-130		%Rec	2	12/6/2016 2:57:41 PM
Surr: Toluene-d8	96.0	70-130		%Rec	2	12/6/2016 2:57:41 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**
Gasoline Range Organics (GRO)	400	9.8		mg/Kg	2	12/6/2016 2:57:41 PM
Surr: BFB	100	70-130		%Rec	2	12/6/2016 2:57:41 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: COPC SJ 29-6 #108M
Lab ID: 1612120-002 **Matrix:** SOIL

Client Sample ID: BH-4 @ 0.5'
Collection Date: 12/2/2016 10:29:00 AM
Received Date: 12/3/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/7/2016 6:04:53 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/7/2016 6:04:53 PM
Surr: DNOP	83.0	70-130		%Rec	1	12/7/2016 6:04:53 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**
Benzene	ND	0.024		mg/Kg	1	12/6/2016 1:31:18 PM
Toluene	ND	0.048		mg/Kg	1	12/6/2016 1:31:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2016 1:31:18 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/6/2016 1:31:18 PM
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	1	12/6/2016 1:31:18 PM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	12/6/2016 1:31:18 PM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	12/6/2016 1:31:18 PM
Surr: Toluene-d8	98.7	70-130		%Rec	1	12/6/2016 1:31:18 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2016 1:31:18 PM
Surr: BFB	95.7	70-130		%Rec	1	12/6/2016 1:31:18 PM

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1612120**

08-Dec-16

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **LCS-29025**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **29025**	RunNo: **39208**
Prep Date: **12/6/2016**	Analysis Date: **12/7/2016**	SeqNo: **1227017** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.4	62.6	124			
Surr: DNOP	4.3		5.000		86.7	70	130			

Sample ID **MB-29025**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **29025**	RunNo: **39208**
Prep Date: **12/6/2016**	Analysis Date: **12/7/2016**	SeqNo: **1227018** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1612120**

08-Dec-16

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **mb-29000**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **29000**	RunNo: **39179**
Prep Date: **12/5/2016**	Analysis Date: **12/6/2016**	SeqNo: **1226570** Units: **mg/Kg**

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: 1,2-Dichloroethane-d4	0.47		0.5000		94.4	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.1	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.2	70	130			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			

Sample ID **lcs-29000**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **29000**	RunNo: **39179**
Prep Date: **12/5/2016**	Analysis Date: **12/6/2016**	SeqNo: **1226571** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	70	130			
Toluene	1.1	0.050	1.000	0	112	70	130			
Ethylbenzene	1.1	0.050	1.000	0	113	70	130			
Xylenes, Total	3.3	0.10	3.000	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.3	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.4	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.7	70	130			
Surr: Toluene-d8	0.50		0.5000		99.9	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1612120**

08-Dec-16

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **mb-29000**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **29000**	RunNo: **39179**
Prep Date: **12/5/2016**	Analysis Date: **12/6/2016**	SeqNo: **1226728** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.5	70	130			

Sample ID **lcs-29000**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **29000**	RunNo: **39179**
Prep Date: **12/5/2016**	Analysis Date: **12/6/2016**	SeqNo: **1226729** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	62.9	123			
Surr: BFB	480		500.0		96.1	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: LTE | Work Order Number: 1612120 | RcptNo: 1

Received by/date: LM 12/03/16

Logged By: Anne Thorne 12/3/2016 8:00:00 AM Anne Thorne

Completed By: Anne Thorne 12/5/2016 Anne Thorne

Reviewed By: 12/05/16

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: LT Environmental, Inc.

Mailing Address: 848 E. 2nd Avenue
Durango, CO 81301

Phone #: 970 385 1096

Email or Fax#: eskyles@ltenv.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☑ NELAP ☐ Other _____

EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 3day TAT

Project Name: COPC SJ 29-6 #108M

Project #:

Project Manager: Emilee Skyles

Sampler: E. Skyles / J. Adams

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.1

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1612120	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
12/16	1022	Soil	BH-3 @0.5'	1-4oz	cool	-001	X		X													
12/16	1029	Soil	BH-4 @0.5'	1-4oz	cool	-002	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/16	1416			12/2/16	1416
12/14	1814			12/13/16	0900

Remarks: Bill to ConocoPhillips
WO# 21802781
Supervisor: Ervin Wyckoff
USER: KAITLW
Ordered by: Lisa Hunter
Area: 7

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 22, 2017

Emilee Skyles
LTE
2243 Main Ave Suite 3
Durango, CO 81301
TEL:
FAX

RE: COPC SJ 29-6 #108M OrderNo.: 1703926

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/17/2017 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 www.hallenvironmental.com 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 qualifers 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1703926**
Date Reported: **3/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-1
Project: COPC SJ 29-6 #108M
Collection Date: 3/16/2017 3:00:00 PM
Lab ID: 1703926-001
Matrix: SOIL
Received Date: 3/17/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/20/2017 1:39:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2017 1:39:59 PM
Surr: DNOP	109	70-130		%Rec	1	3/20/2017 1:39:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2017 1:46:02 PM
Surr: BFB	67.0	54-150		%Rec	1	3/20/2017 1:46:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	3/20/2017 1:46:02 PM
Toluene	ND	0.048		mg/Kg	1	3/20/2017 1:46:02 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2017 1:46:02 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/20/2017 1:46:02 PM
Surr: 4-Bromofluorobenzene	72.9	66.6-132		%Rec	1	3/20/2017 1:46:02 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-2
Project: COPC SJ 29-6 #108M
Collection Date: 3/16/2017 12:21:00 PM
Lab ID: 1703926-002
Matrix: SOIL
Received Date: 3/17/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/20/2017 2:02:38 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2017 2:02:38 PM
Surr: DNOP	110	70-130		%Rec	1	3/20/2017 2:02:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	11	4.8		mg/Kg	1	3/20/2017 6:34:28 PM
Surr: BFB	120	54-150		%Rec	1	3/20/2017 6:34:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	3/20/2017 6:34:28 PM
Toluene	ND	0.048		mg/Kg	1	3/20/2017 6:34:28 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2017 6:34:28 PM
Xylenes, Total	0.18	0.096		mg/Kg	1	3/20/2017 6:34:28 PM
Surr: 4-Bromofluorobenzene	82.1	66.6-132		%Rec	1	3/20/2017 6:34:28 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-3
Project: COPC SJ 29-6 #108M
Collection Date: 3/16/2017 2:05:00 PM
Lab ID: 1703926-003
Matrix: SOIL
Received Date: 3/17/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	650	9.3		mg/Kg	1	3/17/2017 10:01:22 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/17/2017 10:01:22 AM
Surr: DNOP	112	70-130		%Rec	1	3/17/2017 10:01:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	4200	75		mg/Kg	20	3/17/2017 10:10:55 AM
Surr: BFB	248	54-150	S	%Rec	20	3/17/2017 10:10:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	5.2	0.37		mg/Kg	20	3/17/2017 10:10:55 AM
Toluene	130	7.5		mg/Kg	200	3/17/2017 11:03:27 AM
Ethylbenzene	18	0.75		mg/Kg	20	3/17/2017 10:10:55 AM
Xylenes, Total	250	15		mg/Kg	200	3/17/2017 11:03:27 AM
Surr: 4-Bromofluorobenzene	93.2	66.6-132		%Rec	20	3/17/2017 10:10:55 AM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-4
Project: COPC SJ 29-6 #108M
Collection Date: 3/16/2017 3:10:00 PM
Lab ID: 1703926-004
Matrix: SOIL
Received Date: 3/17/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	55	9.8		mg/Kg	1	3/20/2017 2:24:53 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/20/2017 2:24:53 PM
Surr: DNOP	112	70-130		%Rec	1	3/20/2017 2:24:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	230	4.7		mg/Kg	1	3/20/2017 7:00:40 PM
Surr: BFB	246	54-150	S	%Rec	1	3/20/2017 7:00:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	0.13	0.024		mg/Kg	1	3/20/2017 7:00:40 PM
Toluene	4.1	0.047		mg/Kg	1	3/20/2017 7:00:40 PM
Ethylbenzene	0.93	0.047		mg/Kg	1	3/20/2017 7:00:40 PM
Xylenes, Total	9.7	0.095		mg/Kg	1	3/20/2017 7:00:40 PM
Surr: 4-Bromofluorobenzene	82.9	66.6-132		%Rec	1	3/20/2017 7:00:40 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-5
Project: COPC SJ 29-6 #108M
Collection Date: 3/16/2017 3:15:00 PM
Lab ID: 1703926-005 **Matrix:** SOIL **Received Date:** 3/17/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	870	9.2		mg/Kg	1	3/17/2017 10:23:03 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/17/2017 10:23:03 AM
Surr: DNOP	113	70-130		%Rec	1	3/17/2017 10:23:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	4300	66		mg/Kg	20	3/17/2017 10:37:17 AM
Surr: BFB	278	54-150	S	%Rec	20	3/17/2017 10:37:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	7.4	0.33		mg/Kg	20	3/17/2017 10:37:17 AM
Toluene	100	6.6		mg/Kg	200	3/17/2017 11:29:41 AM
Ethylbenzene	19	0.66		mg/Kg	20	3/17/2017 10:37:17 AM
Xylenes, Total	230	13		mg/Kg	200	3/17/2017 11:29:41 AM
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	20	3/17/2017 10:37:17 AM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-6
Project: COPC SJ 29-6 #108M
Collection Date: 3/16/2017 3:21:00 PM
Lab ID: 1703926-006
Matrix: SOIL
Received Date: 3/17/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	740	9.4		mg/Kg	1	3/20/2017 2:47:13 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2017 2:47:13 PM
Surr: DNOP	111	70-130		%Rec	1	3/20/2017 2:47:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	990	49		mg/Kg	10	3/21/2017 11:15:09 AM
Surr: BFB	235	54-150	S	%Rec	10	3/21/2017 11:15:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	0.44	0.024		mg/Kg	1	3/20/2017 7:53:01 PM
Toluene	9.7	0.49		mg/Kg	10	3/21/2017 11:15:09 AM
Ethylbenzene	2.7	0.049		mg/Kg	1	3/20/2017 7:53:01 PM
Xylenes, Total	39	0.98		mg/Kg	10	3/21/2017 11:15:09 AM
Surr: 4-Bromofluorobenzene	258	66.6-132	S	%Rec	1	3/20/2017 7:53:01 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-7
Project: COPC SJ 29-6 #108M
Collection Date: 3/16/2017 2:16:00 PM
Lab ID: 1703926-007
Matrix: SOIL
Received Date: 3/17/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	55	9.1		mg/Kg	1	3/20/2017 3:09:23 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/20/2017 3:09:23 PM
Surr: DNOP	106	70-130		%Rec	1	3/20/2017 3:09:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	51	4.7		mg/Kg	1	3/20/2017 8:45:25 PM
Surr: BFB	375	54-150	S	%Rec	1	3/20/2017 8:45:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	3/20/2017 8:45:25 PM
Toluene	0.44	0.047		mg/Kg	1	3/20/2017 8:45:25 PM
Ethylbenzene	0.22	0.047		mg/Kg	1	3/20/2017 8:45:25 PM
Xylenes, Total	2.4	0.095		mg/Kg	1	3/20/2017 8:45:25 PM
Surr: 4-Bromofluorobenzene	85.5	66.6-132		%Rec	1	3/20/2017 8:45:25 PM

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

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703926**

22-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **LCS-30749**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **30749**	RunNo: **41454**
Prep Date: **3/17/2017**	Analysis Date: **3/17/2017**	SeqNo: **1299717** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	63.8	116			
Surr: DNOP	4.9		5.000		97.6	70	130			

Sample ID **MB-30749**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **30749**	RunNo: **41454**
Prep Date: **3/17/2017**	Analysis Date: **3/17/2017**	SeqNo: **1299718** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Sample ID **LCS-30762**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **30762**	RunNo: **41496**
Prep Date: **3/17/2017**	Analysis Date: **3/20/2017**	SeqNo: **1301492** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.4	63.8	116			
Surr: DNOP	4.8		5.000		96.4	70	130			

Sample ID **MB-30762**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **30762**	RunNo: **41496**
Prep Date: **3/17/2017**	Analysis Date: **3/20/2017**	SeqNo: **1301493** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		105	70	130			

Sample ID **MB-30783**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **30783**	RunNo: **41527**
Prep Date: **3/20/2017**	Analysis Date: **3/21/2017**	SeqNo: **1302594** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703926**

22-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **LCS-30783**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **30783**	RunNo: **41527**
Prep Date: **3/20/2017**	Analysis Date: **3/21/2017**	SeqNo: **1302630** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703926**

22-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID	MB-30725	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	30725		RunNo:	41456				
Prep Date:	3/16/2017	Analysis Date:	3/17/2017		SeqNo:	1300833	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	690		1000		68.6	54	150			

Sample ID	LCS-30725	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	30725		RunNo:	41456				
Prep Date:	3/16/2017	Analysis Date:	3/17/2017		SeqNo:	1300834	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	76.4	125			
Surr: BFB	880		1000		88.2	54	150			

Sample ID	MB-30752	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	30752		RunNo:	41507				
Prep Date:	3/17/2017	Analysis Date:	3/20/2017		SeqNo:	1301576	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	700		1000		69.7	54	150			

Sample ID	LCS-30752	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	30752		RunNo:	41507				
Prep Date:	3/17/2017	Analysis Date:	3/20/2017		SeqNo:	1301577	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	76.4	125			
Surr: BFB	830		1000		82.6	54	150			

Sample ID	1703926-002AMS	SampType:	MS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	SC-2	Batch ID:	30752		RunNo:	41507				
Prep Date:	3/17/2017	Analysis Date:	3/20/2017		SeqNo:	1301582	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	42	4.9	24.68	10.59	129	61.3	150			
Surr: BFB	1400		987.2		142	54	150			

Sample ID	1703926-002AMSD	SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	SC-2	Batch ID:	30752		RunNo:	41507				
Prep Date:	3/17/2017	Analysis Date:	3/20/2017		SeqNo:	1301583	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703926**

22-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **1703926-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SC-2**	Batch ID: **30752**	RunNo: **41507**
Prep Date: **3/17/2017**	Analysis Date: **3/20/2017**	SeqNo: **1301583** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	39	4.8	23.97	10.59	116	61.3	150	9.79	20	
Surr: BFB	1200		958.8		126	54	150	0	0	

Sample ID **MB-30782**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **30782**	RunNo: **41546**
Prep Date: **3/20/2017**	Analysis Date: **3/21/2017**	SeqNo: **1303073** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	740		1000		73.8	54	150			

Sample ID **LCS-30782**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **30782**	RunNo: **41546**
Prep Date: **3/20/2017**	Analysis Date: **3/21/2017**	SeqNo: **1303076** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		87.4	54	150			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703926**

22-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **MB-30725**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **30725**	RunNo: **41456**
Prep Date: **3/16/2017**	Analysis Date: **3/17/2017**	SeqNo: **1300908** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.75		1.000		75.3	66.6	132			

Sample ID **LCS-30725**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **30725**	RunNo: **41456**
Prep Date: **3/16/2017**	Analysis Date: **3/17/2017**	SeqNo: **1300909** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	0.97	0.050	1.000	0	96.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.74		1.000		74.3	66.6	132			

Sample ID **MB-30752**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **30752**	RunNo: **41507**
Prep Date: **3/17/2017**	Analysis Date: **3/20/2017**	SeqNo: **1301599** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.76		1.000		76.3	66.6	132			

Sample ID **LCS-30752**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **30752**	RunNo: **41507**
Prep Date: **3/17/2017**	Analysis Date: **3/20/2017**	SeqNo: **1301600** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.4	66.6	132			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703926**

22-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **1703926-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **30752**	RunNo: **41507**
Prep Date: **3/17/2017**	Analysis Date: **3/20/2017**	SeqNo: **1301602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9560	0.007273	93.4	61.5	138			
Toluene	0.91	0.048	0.9560	0.007368	94.6	71.4	127			
Ethylbenzene	0.91	0.048	0.9560	0.006411	94.1	70.9	132			
Xylenes, Total	2.8	0.096	2.868	0	96.3	76.2	123			
Surr: 4-Bromofluorobenzene	0.79		0.9560		82.3	66.6	132			

Sample ID **1703926-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **30752**	RunNo: **41507**
Prep Date: **3/17/2017**	Analysis Date: **3/20/2017**	SeqNo: **1301603** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.023	0.9302	0.007273	92.2	61.5	138	3.94	20	
Toluene	0.89	0.047	0.9302	0.007368	94.7	71.4	127	2.60	20	
Ethylbenzene	0.91	0.047	0.9302	0.006411	97.0	70.9	132	0.247	20	
Xylenes, Total	2.8	0.093	2.791	0	99.7	76.2	123	0.755	20	
Surr: 4-Bromofluorobenzene	0.81		0.9302		87.3	66.6	132	0	0	

Sample ID **MB-30782**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **30782**	RunNo: **41546**
Prep Date: **3/20/2017**	Analysis Date: **3/21/2017**	SeqNo: **1303108** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.82		1.000		81.5	66.6	132			

Sample ID **LCS-30782**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **30782**	RunNo: **41546**
Prep Date: **3/20/2017**	Analysis Date: **3/21/2017**	SeqNo: **1303109** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.74		1.000		74.4	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: LTE | Work Order Number: 1703926 | RcptNo: 1

Received by/date: CM 03/17/17

Logged By: Anne Thorne 3/17/2017 7:00:00 AM

Completed By: Anne Thorne 3/17/2017 7:33:14 AM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

Chain-of-Custody Record

Client: LTEnvironmental

Mailing Address: 848 E. 2nd Ave
Durango, CO 81301

Phone #: 970-385-1096

email or Fax#: emily.e.m emskyles@ltenv.com

QA/QC Package: (aw)
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush SEE COMMENTS

Project Name: COPC SJ 29-6 #108M

Project #:

Project Manager: E. Skyles

Sampler: E. Skyles

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1703924	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3/16/17	1500	Soil	SC-1	1-4oz	cool	701	X		X													
3/16/17	1221	Soil	SC-2	1-4oz	cool	702	X		X													
3/16/17	1405	Soil	SC-3	1-4oz MeOHkit	cool MeOH	703	X		X													
3/16/17	1510	Soil	SC-4	1-4oz	cool	704	X		X													
3/16/17	1515	Soil	SC-5	1-4oz MeOHkit	cool MeOH	705	X		X													
3/16/17	1521	Soil	SC-6	1-4oz	cool	706	X		X													
3/16/17	1416	Soil	SC-7	1-4oz	cool	707	X		X													

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/16/17	1804			3/16/17	1806
3/16/17	1844			03/17/17	0700

Remarks: Bill to ConocoPhillips
WO# 21869433
Approver KAITLW
Area 7 Super Erin Wyckoff

SC-3 & SC-5 same day
All others 3-day TAT

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

March 31, 2017

Emilee Skyles
LTE
2243 Main Ave Suite 3
Durango, CO 81301
TEL:
FAX

RE: COPC SJ 29-6 #108M OrderNo.: 1703E01

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/29/2017 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 www.hallenvironmental.com 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 qualifers 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1703E01**
Date Reported: **3/31/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-8
Project: COPC SJ 29-6 #108M
Collection Date: 3/27/2017 12:36:00 PM
Lab ID: 1703E01-001
Matrix: SOIL
Received Date: 3/29/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/30/2017 8:52:48 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/30/2017 8:52:48 AM
Surr: DNOP	111	70-130		%Rec	1	3/30/2017 8:52:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	3/29/2017 1:45:48 PM
Surr: BFB	74.8	54-150		%Rec	1	3/29/2017 1:45:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.018		mg/Kg	1	3/29/2017 1:45:48 PM
Toluene	ND	0.036		mg/Kg	1	3/29/2017 1:45:48 PM
Ethylbenzene	ND	0.036		mg/Kg	1	3/29/2017 1:45:48 PM
Xylenes, Total	ND	0.072		mg/Kg	1	3/29/2017 1:45:48 PM
Surr: 4-Bromofluorobenzene	83.6	66.6-132		%Rec	1	3/29/2017 1:45:48 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-9
Project: COPC SJ 29-6 #108M
Collection Date: 3/28/2017 10:28:00 AM
Lab ID: 1703E01-002 **Matrix:** SOIL **Received Date:** 3/29/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	3/30/2017 9:14:45 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/30/2017 9:14:45 AM
Surr: DNOP	105	70-130		%Rec	1	3/30/2017 9:14:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	15	3.8		mg/Kg	1	3/29/2017 2:12:18 PM
Surr: BFB	147	54-150		%Rec	1	3/29/2017 2:12:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.019		mg/Kg	1	3/29/2017 2:12:18 PM
Toluene	ND	0.038		mg/Kg	1	3/29/2017 2:12:18 PM
Ethylbenzene	0.052	0.038		mg/Kg	1	3/29/2017 2:12:18 PM
Xylenes, Total	0.24	0.075		mg/Kg	1	3/29/2017 2:12:18 PM
Surr: 4-Bromofluorobenzene	84.2	66.6-132		%Rec	1	3/29/2017 2:12:18 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-10
Project: COPC SJ 29-6 #108M
Collection Date: 3/28/2017 10:35:00 AM
Lab ID: 1703E01-003
Matrix: SOIL
Received Date: 3/29/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	12	10		mg/Kg	1	3/30/2017 9:36:34 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/30/2017 9:36:34 AM
Surr: DNOP	112	70-130		%Rec	1	3/30/2017 9:36:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	7.1	4.0		mg/Kg	1	3/29/2017 2:38:47 PM
Surr: BFB	134	54-150		%Rec	1	3/29/2017 2:38:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.020		mg/Kg	1	3/29/2017 2:38:47 PM
Toluene	ND	0.040		mg/Kg	1	3/29/2017 2:38:47 PM
Ethylbenzene	ND	0.040		mg/Kg	1	3/29/2017 2:38:47 PM
Xylenes, Total	ND	0.079		mg/Kg	1	3/29/2017 2:38:47 PM
Surr: 4-Bromofluorobenzene	91.7	66.6-132		%Rec	1	3/29/2017 2:38:47 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-11
Project: COPC SJ 29-6 #108M
Collection Date: 3/27/2017 12:25:00 PM
Lab ID: 1703E01-004
Matrix: SOIL
Received Date: 3/29/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/30/2017 9:58:35 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/30/2017 9:58:35 AM
Surr: DNOP	111	70-130		%Rec	1	3/30/2017 9:58:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/29/2017 3:05:04 PM
Surr: BFB	80.1	54-150		%Rec	1	3/29/2017 3:05:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.021		mg/Kg	1	3/29/2017 3:05:04 PM
Toluene	ND	0.041		mg/Kg	1	3/29/2017 3:05:04 PM
Ethylbenzene	ND	0.041		mg/Kg	1	3/29/2017 3:05:04 PM
Xylenes, Total	ND	0.083		mg/Kg	1	3/29/2017 3:05:04 PM
Surr: 4-Bromofluorobenzene	88.8	66.6-132		%Rec	1	3/29/2017 3:05:04 PM

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: SC-12
Project: COPC SJ 29-6 #108M
Collection Date: 3/28/2017 10:20:00 AM
Lab ID: 1703E01-005
Matrix: SOIL
Received Date: 3/29/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	120	9.4		mg/Kg	1	3/29/2017 8:55:20 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/29/2017 8:55:20 AM
Surr: DNOP	108	70-130		%Rec	1	3/29/2017 8:55:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	90	21		mg/Kg	5	3/29/2017 9:21:51 AM
Surr: BFB	216	54-150	S	%Rec	5	3/29/2017 9:21:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.10		mg/Kg	5	3/29/2017 9:21:51 AM
Toluene	0.33	0.21		mg/Kg	5	3/29/2017 9:21:51 AM
Ethylbenzene	0.45	0.21		mg/Kg	5	3/29/2017 9:21:51 AM
Xylenes, Total	5.0	0.41		mg/Kg	5	3/29/2017 9:21:51 AM
Surr: 4-Bromofluorobenzene	95.6	66.6-132		%Rec	5	3/29/2017 9:21:51 AM

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703E01**

31-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **LCS-30953**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **30953**	RunNo: **41718**
Prep Date: **3/29/2017**	Analysis Date: **3/29/2017**	SeqNo: **1309557** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	63.8	116			
Surr: DNOP	4.7		5.000		93.0	70	130			

Sample ID **MB-30953**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **30953**	RunNo: **41718**
Prep Date: **3/29/2017**	Analysis Date: **3/29/2017**	SeqNo: **1309558** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	70	130			

Sample ID **LCS-30959**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **30959**	RunNo: **41755**
Prep Date: **3/29/2017**	Analysis Date: **3/30/2017**	SeqNo: **1310572** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	63.8	116			
Surr: DNOP	5.0		5.000		101	70	130			

Sample ID **MB-30959**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **30959**	RunNo: **41755**
Prep Date: **3/29/2017**	Analysis Date: **3/30/2017**	SeqNo: **1310575** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Sample ID **LCS-30969**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **30969**	RunNo: **41755**
Prep Date: **3/29/2017**	Analysis Date: **3/30/2017**	SeqNo: **1311683** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		104	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703E01**

31-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID	**MB-30969**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**
Client ID:	**PBS**	Batch ID:	**30969**	RunNo:	**41755**
Prep Date:	**3/29/2017**	Analysis Date:	**3/30/2017**	SeqNo:	**1311684** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703E01**

31-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **MB-30945**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **30945**	RunNo: **41734**
Prep Date: **3/28/2017**	Analysis Date: **3/29/2017**	SeqNo: **1310271** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	670		1000		66.8	54	150			

Sample ID **LCS-30945**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **30945**	RunNo: **41734**
Prep Date: **3/28/2017**	Analysis Date: **3/29/2017**	SeqNo: **1310272** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	76.4	125			
Surr: BFB	930		1000		92.9	54	150			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1703E01**

31-Mar-17

Client: LTE

Project: COPC SJ 29-6 #108M

Sample ID **MB-30945**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **30945**	RunNo: **41734**
Prep Date: **3/28/2017**	Analysis Date: **3/29/2017**	SeqNo: **1310304** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.73		1.000		73.1	66.6	132			

Sample ID **LCS-30945**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **30945**	RunNo: **41734**
Prep Date: **3/28/2017**	Analysis Date: **3/29/2017**	SeqNo: **1310305** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.8	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: LTE | Work Order Number: 1703E01 | RcptNo: 1

Received by/date: AT 03/29/17

Logged By: Anne Thorne 3/29/2017 7:15:00 AM

Completed By: Anne Thorne 3/29/2017 7:41:13 AM

Reviewed By: aJ 03/29/17

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

Chain-of-Custody Record

Client: LT Environmental, Inc

Mailing Address: 848 E. 2nd Ave
Durango CO 81301

Phone #: 970-385-1096

email or Fax#: eskyles@ltenv.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush See Comments

Project Name:
COPC SJ 29-6 #108M

Project #:

Project Manager:
E. Skyles

Sampler: ES

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 176561	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3/27/17	1236	Soil	SC-8	1-4oz MeOH Kit	Cool MeOH	001	X		X													
3/28/17	1028	Soil	SC-9	1-4oz MeOH Kit	Cool MeOH	002	X		X													
3/28/17	1035	Soil	SC-10	1-4oz MeOH Kit	Cool MeOH	003	X		X													
3/27/17	1225	Soil	SC-11	1-4oz MeOH Kit	Cool MeOH	004	X		X													
3/28/17	1020	Soil	SC-12	1-4oz MeOH Kit	Cool MeOH	005	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/28/17	1311			3/28/17	1311
Date:	Time:	Relinquished by:	Received by:	Date	Time
3/28/17	1834			03/29/17	0715

Remarks: Bill to ConocoPhillips
WO # 21869433
Approver Area 7 KAITLIN
ordered by: Lisa Hunter
Super Erin Wyckoff

SC-12 SAME as SC-8 thru SC-11
2 day TAT (Next Day)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.