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

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 28-7 Unit 244M**	Facility Type: **Gas Well**

Surface Owner **BLM**	Mineral Owner **NMSF-078835-A**	API No. **30-039-26873**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	**07**	**27N**	**07W**	**850'**	**FNL**	**965'**	**FWL**	**Rio Arriba**

Latitude 36.59354 Longitude -107.62132

NATURE OF RELEASE

Type of Release Hydrocarbon and produced water	Volume of Release 13 bbls HC/7bbls PW	Volume Recovered 0 bbls
Source of Release production tank drain line	Date and Hour of Occurrence **unknown**	Date and Hour of Discovery **8/11/2015 @12 pm**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Cory Smith and Shari Ketcham**	OIL CONS. DIV DIST. 3
By Whom? Lindsay Dumas	Date and Hour 8/11/2015 @3:30pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	AUG 11 2016

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

Describe Cause of Problem and Remedial Action Taken.*
A vandal opened the drain valve and moved the drain line from dumping into the pit to dumping on the ground; releasing 20 total bbls of hydrocarbons and produced water on to the ground.

Describe Area Affected and Cleanup Action Taken.*
Excavation was 25' x 57' x 3-4' Deep. Approximately 158 c/yds of soil was transported to IEI Land Farm. Analytical results were below the regulatory standards – no further action required. 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 M. Hunter**		
Title: **Field Environmental Specialist**	Approval Date: 12/8/16	Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval:	Attached ☐
Date: **August 9, 2016** Phone: **(505) 258-1607**		

* Attach Additional Sheets If Necessary #NCS 1524540741

37

July 26, 2016

Lisa Hunter
ConocoPhillips
San Juan Business Unit
(505) 326-9786

Via electronic mail to:
SJBUE-Team@ConocoPhillips.com

RE: Release Assessment and Final Excavation Report
San Juan 28-7 #244M
Rio Arriba County, New Mexico

Dear Ms. Hunter:

On August 26, 2015 and June 21, 2016, Animas Environmental Services, LLC (AES) completed a release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) San Juan 28-7 #244M, located in Rio Arriba County, New Mexico. The release consisted of approximately 13 barrels (bbls) of condensate and 7 barrels produced water due to vandalism at the location. The initial release assessment was completed by AES on August 26, 2015, and the final excavation was completed by COPC contractors while AES' was on location June 21, 2016.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-7 #244M
Location – NW¼ NW¼, Section 7, T27N, R7W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.59336 and W107.62113, respectively
Release Location Latitude/Longitude – N36.59354 and W107.62132, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, August 2015

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases*

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 200
Durango, CO 81301
970-403-3084

www.animasenvironmental.com

(August 1993) prior to site work. The release was given a ranking score of 10 based on the following factors:

- **Depth to Groundwater:** Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash is located approximately 775 feet southeast of the location and drains to Smith Canyon. (10 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of COPC on August 17, 2015, and on August 26, 2015, Emilee Skyles and Sam Glasses of AES completed the release assessment field work. The assessment included collection and field sampling of 15 soil samples from seven borings in and around the release area. Soil borings were terminated between 0.5 and 1.5 feet. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3 and Figure 4.

On June 21, 2016, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of 10 confirmation soil samples (SC-1 through SC-10) from the walls and base of the excavation. The area of the final excavation measured approximately 25 feet by 57 feet by 3 to 4 feet in depth. Sample locations and final excavation extents are presented on Figure 5.

2.0 Soil Sampling

A total of 25 soil samples from 7 borings (SB-1 through SB-7) and 10 composite samples (SC-1 through SC-10) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Eight composite samples (SC-2 and SC-4 through SC-10) collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.*

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B.
- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor range organics (MRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On August 26, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 3.5 ppm in SB-7 up to 3,168 ppm in SB-2. Field TPH concentrations ranged from 45.4 mg/kg in SB-7 up to 9,420 mg/kg in SB-2.

On June 21, 2016, final excavation field screening results for VOCs via OVM ranged from 1.8 ppm in SC-5 up to 4,791 ppm in SC-2. Field TPH concentrations ranged from 30.8 mg/kg in SC-9 up to 743 mg/kg in SC-2. Results are included below in Table 1 and on Figures 3 and 5. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs and TPH Results
San Juan 28-7 #244M Initial Release Assessment and Final Excavation
August 2015 and June 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
*NMOCD Action Level**			*100*	*1,000*
SB-1	8/26/15	0.5	**2,778**	**2,500**
		1	**3,021**	**2,760**
SB-2	8/26/15	0.5	**3,168**	**2,300**
		1	**2,865**	**>2,500**
		1.5	**2,664**	**9,420**

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
*NMOCD Action Level**			*100*	*1,000*
SB-3	8/26/15	0.5	**2,709**	NA
		1	**3,066**	420
SB-4	8/26/15	0.5	32.3	NA
		1.5	15.7	557
SB-5	8/26/15	0.5	4.8	NA
		1	4.6	48.8
SB-6	8/26/15	0.5	8.8	NA
		1.5	4.9	47.1
SB-7	8/26/15	0.5	3.8	NA
		1	3.5	45.4
SC-1	6/21/16	0 to 3	**4,416**	442
SC-2	6/21/16	3	**4,791**	743
SC-3	6/21/16	0 to 4	**4,507**	392
SC-4	6/21/16	4	**3,609**	221
SC-5	6/21/16	0 to 3	1.8	47.0
SC-6	6/21/16	0 to 4	13.0	55.0
SC-7	6/21/16	0 to 3	3.3	47.0
SC-8	6/21/16	0 to 4	15.8	40.5
SC-9	6/21/16	0 to 4	13.5	30.8
SC-10	6/21/16	0 to 3	8.3	66.3

NA - not analyzed
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

Laboratory analyses for SC-2 and SC-4 through SC-10 were used to confirm field sampling results from the final excavation. Benzene concentrations in SC-2 and SC-4 through SC-10 were reported below laboratory detection limits ranging from of 0.015 mg/kg to 0.025 mg/kg. Total BTEX concentrations were reported from below laboratory detection limits of 0.208 mg/kg in SC-10 up to 1.01 mg/kg in SC-5. TPH concentrations as GRO/DRO/MRO ranged from below laboratory detection limits and up to 462 mg/kg in SC-2. Results are presented in Table 2 and on Figure 5. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
San Juan 28-7 #244M Final Excavation
June 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
*NMOCD Action Level**			*10*	*50*		*1,000*	
SC-2	6/21/16	3	<0.015	1.01	94	310	58
SC-4	6/21/16	4	<0.016	0.17	15	130	<50
SC-5	6/21/16	0 to 3	<0.024	<0.216	<4.8	9.7	<48
SC-6	6/21/16	0 to 4	<0.024	<0.219	<4.9	<9.5	<48
SC-7	6/21/16	0 to 3	<0.025	<0.224	<5.0	<9.6	<48
SC-8	6/21/16	0 to 4	<0.024	<0.22	<4.9	<9.9	<49
SC-9	6/21/16	0 to 4	<0.024	<0.22	<4.9	15	<46
SC-10	6/21/16	0 to 3	<0.023	<0.208	<4.6	17	69

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On August 26, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with a release of produced water and condensate at the San Juan 28-7 #244M. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in SB-1 through SB-3. The highest VOC concentration was reported in SB-2 with 3,168 ppm, and the highest TPH concentration was reported in SB-2 with 9,420 mg/kg. Based on field results, a release was confirmed at the location.

On June 21, 2016, final clearance of the excavation area was completed. Due to the shallow depth of the excavation, two initial composite samples were collected: one wall composite from the north half of the excavation (SC-1) and one wall composite from the south half of the excavation (SC-3). Based on field results, AES recommended further excavation of the area and collected composite samples over smaller areas. Final field sampling results of the excavation extents showed that VOC concentrations were above the applicable NMOCD action levels for the base of the excavation, SC-2 and SC-4. Field TPH concentrations were below the applicable NMOCD action level of 1,000 mg/kg for the final walls and base of the

excavation. Laboratory analytical results reported benzene and total BTEX concentrations were below the applicable NMOCD action levels, and TPH concentrations as GRO/DRO/MRO were reported below the applicable NMOCD action level in SC-2 and SC-4 through SC-10.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-7 #244M, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Emilee Skyles at (505) 564-2281.

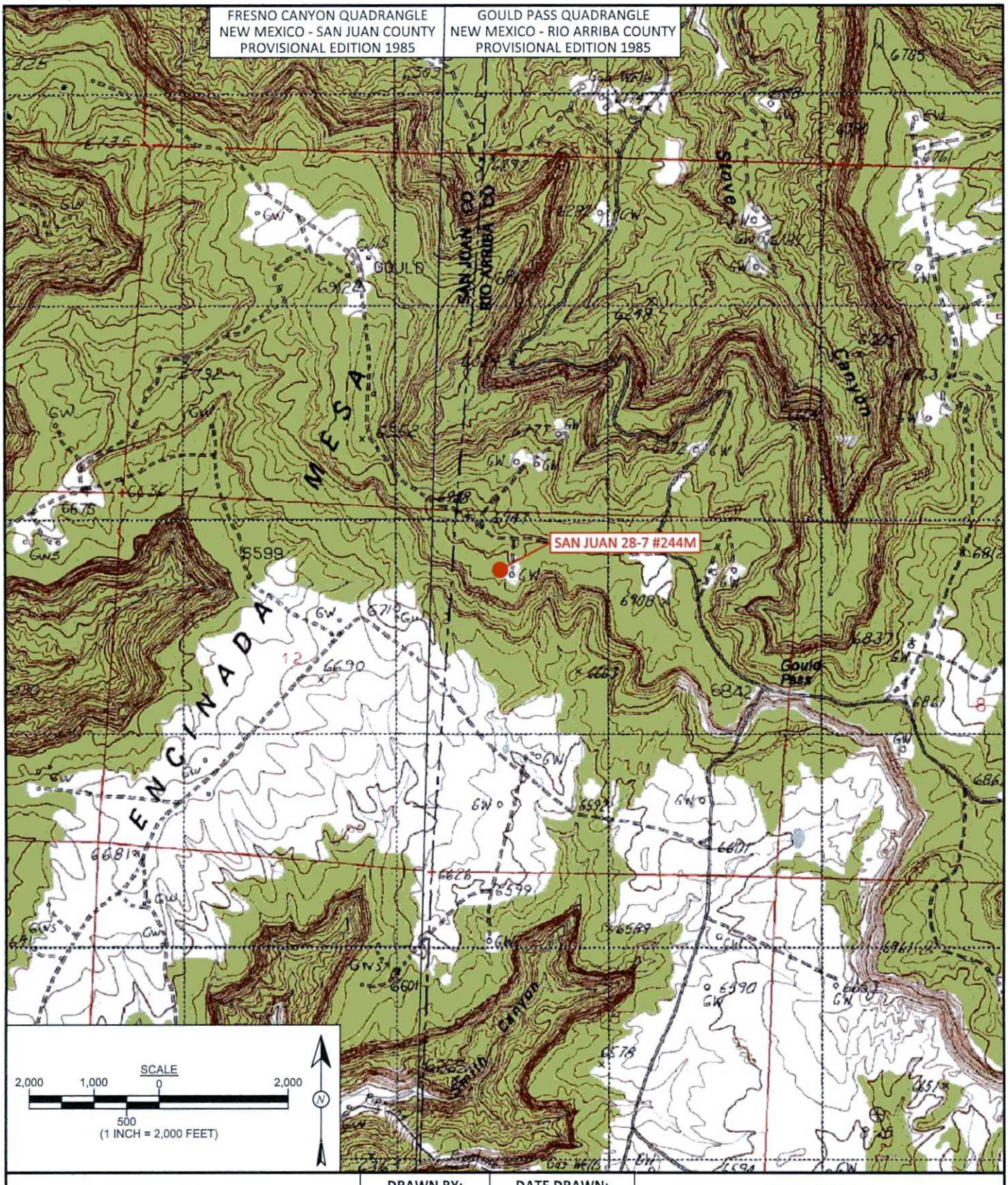
Sincerely,

Emilee Skyles
Geologist/Project Lead

Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, June 2016
- Figure 3. Release Assessment Sample Locations and Results, August 2015
- Figure 4. Initial Assessment Cross Section, August 2015
- Figure 5. Final Excavation Sample Locations and Results, June 2016
- AES Field Sampling Report 082615
- AES Field Sampling Report 062116
- Hall Laboratory Analytical Report 1606C02
- Hall Laboratory Analytical Report 1606C21



DRAWN BY: D. Dougi	**DATE DRAWN:** September 1, 2015
REVISIONS BY: C. Lameman	**DATE REVISED:** June 22, 2016
CHECKED BY: E. Skyles	**DATE CHECKED:** June 22, 2016
APPROVED BY: E. McNally	**DATE APPROVED:** June 22, 2016

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 28-7 #244M
NW¼ NW¼, SECTION 7, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.59336, W107.62113

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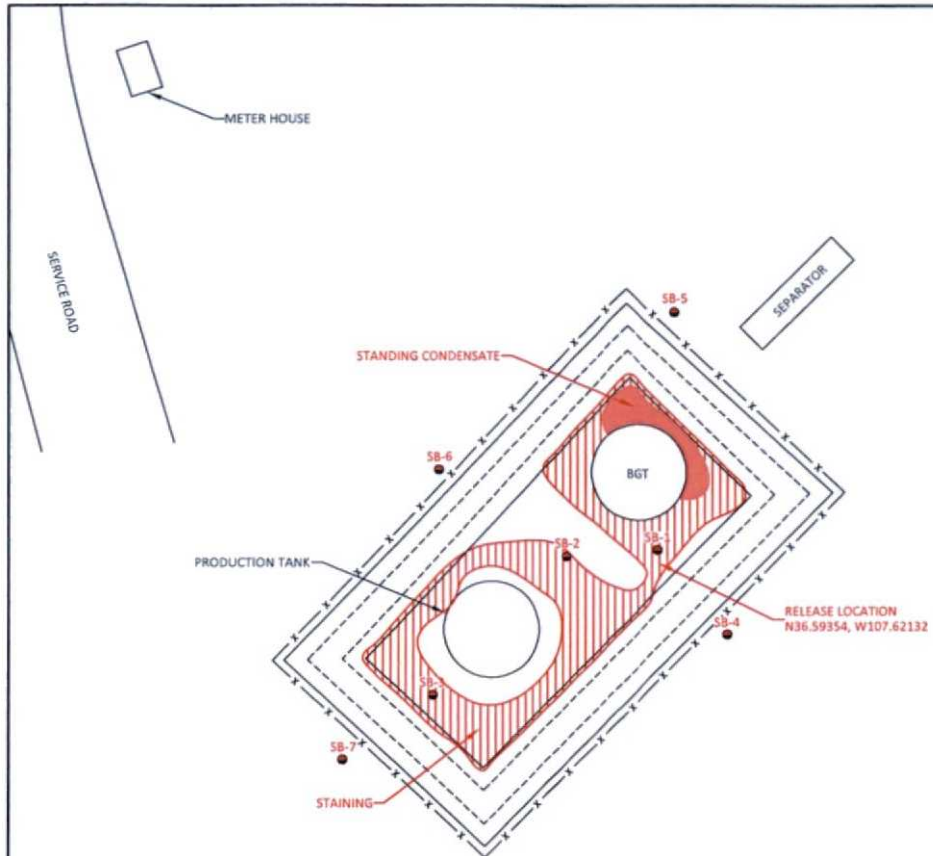
DRAWN BY: D. Dougi	DATE DRAWN: September 1, 2015
REVISIONS BY: C. Lameman	DATE REVISED: June 22, 2016
CHECKED BY: E. Skyles	DATE CHECKED: June 22, 2016
APPROVED BY: E. McNally	DATE APPROVED: June 22, 2016

FIGURE 2

AERIAL SITE MAP
JUNE 2016
ConocoPhillips
SAN JUAN 28-7 #244M
NW¼ NW¼, SECTION 7, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.59336, W107.62113

FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS
AUGUST 2015
ConocoPhillips
SAN JUAN 28-7 #244M
NW¼ NW¼, SECTION 7, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.59336, W107.62113



Field Sampling Results				
Sample ID	**Date**	**Depth (ft)**	**OVM-PID (ppm)**	**TPH (mg/kg)**
NMOCD ACTION LEVEL			**100**	**1,000**
SB-1	8/26/15	0.5	**2,778**	**2,500**
		1.0	**3,021**	**2,760**
SB-2	8/26/15	0.5	**3,168**	**2,300**
		1.0	**2,865**	**>2,500**
		1.5	**2,664**	**9,420**
SB-3	8/26/15	0.5	**2,709**	NA
		1.0	**3,066**	420
SB-4	8/26/15	0.5	32.3	NA
		1.5	15.7	557
SB-5	8/26/15	0.5	4.8	NA
		1.0	4.6	48.8
SB-6	8/26/15	0.5	8.8	NA
		1.5	4.9	47.1
SB-7	8/26/15	0.5	3.8	NA
		1.0	3.5	45.4
NA - NOT ANALYZED.				

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DRAWN BY: S. Glasses	**DATE DRAWN:** August 26, 2015
REVISIONS BY: S. Glasses	**DATE REVISED:** July 25, 2016
CHECKED BY: E. Skyles	**DATE CHECKED:** July 25, 2016
APPROVED BY: E. McNally	**DATE APPROVED:** July 25, 2016

LEGEND

- SOIL BORING LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

SCALE
15 10 5 0 15
(1 INCH = 15 FEET)

FIGURE 4

INITIAL ASSESSMENT
CROSS SECTION
AUGUST 2015
ConocoPhillips
SAN JUAN 28-7 #244M
NW¼ NW¼, SECTION 7, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.59336, W107.62113

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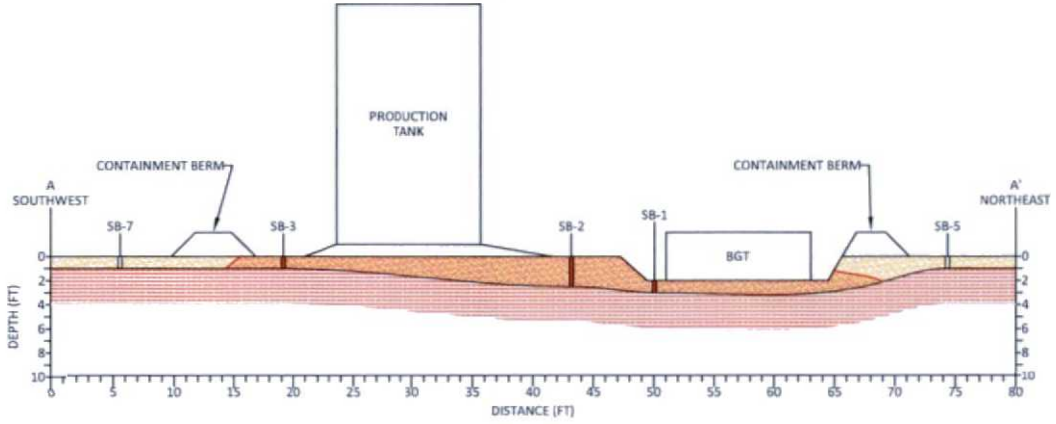
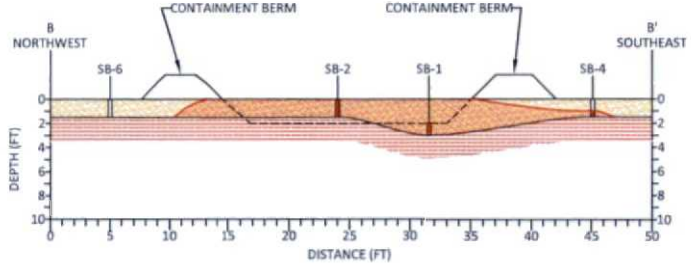
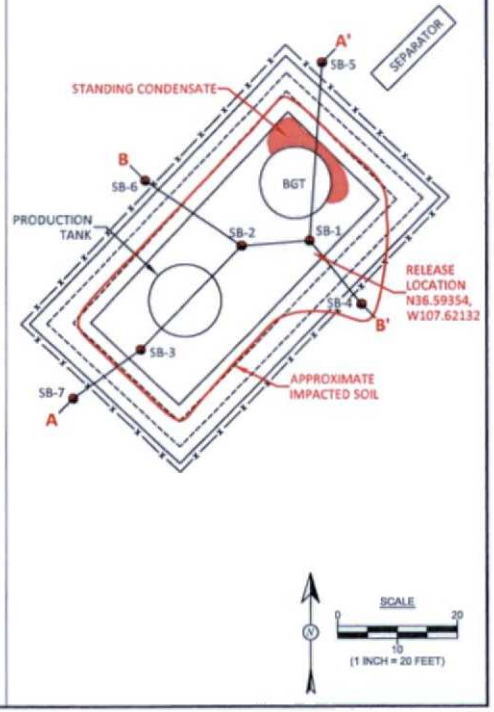
DRAWN BY:	DATE DRAWN:
S. Glasses	August 26, 2015
REVISIONS BY:	**DATE REVISED:**
C. Lameman	June 22, 2016
CHECKED BY:	**DATE CHECKED:**
E. Skyles	June 22, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	June 22, 2016

LEGEND

- SOIL BORING LOCATIONS
- SECONDARY CONTAINMENT BERM
- FENCE
- SAND
- SANDSTONE
- APPROXIMATE EXTENT OF IMPACTED SOIL (IN-PLACE 80 YD³)



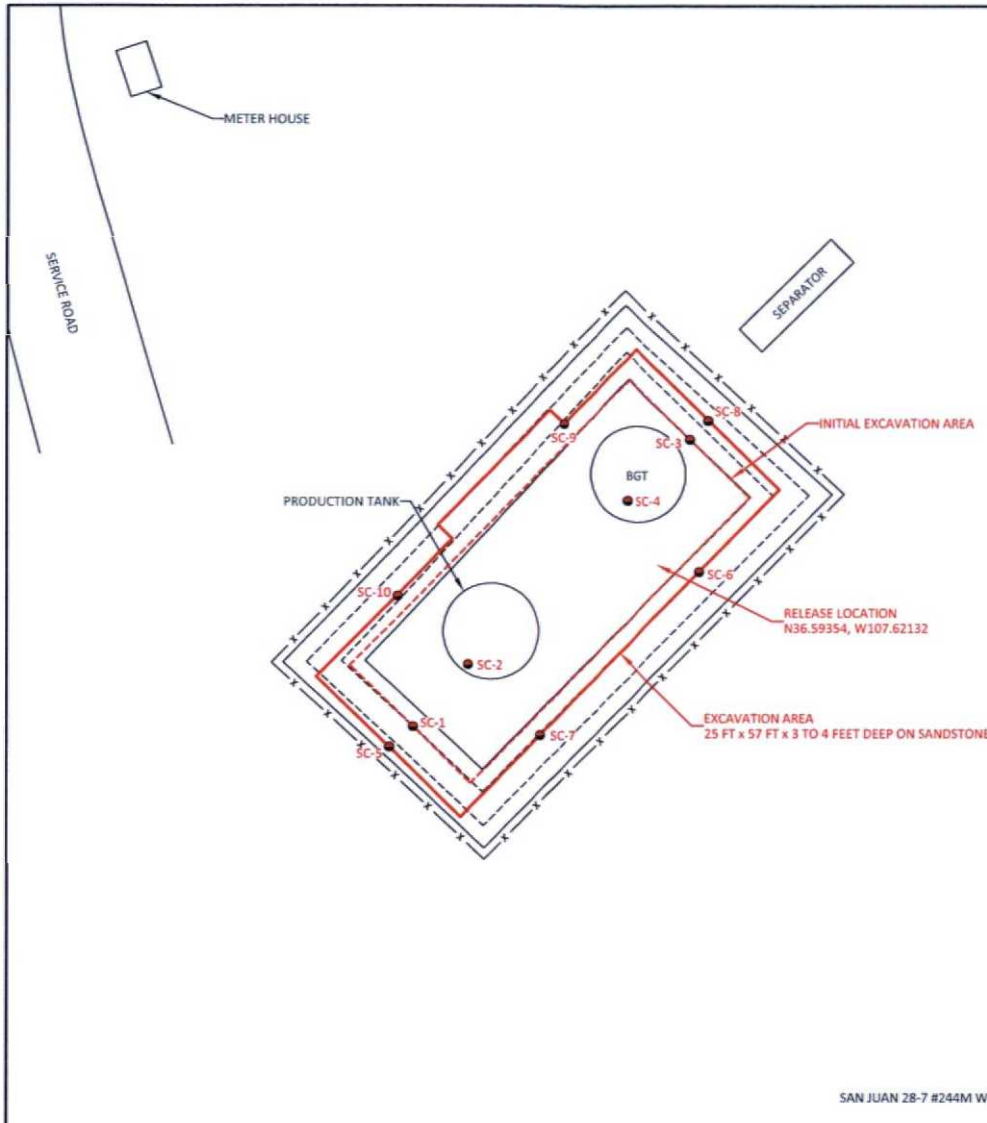




NOT TO SCALE

FIGURE 5

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
JUNE 2016
ConocoPhillips
SAN JUAN 28-7 #244M
NW¼ NW¼, SECTION 7, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.59336, W107.62113



Field Sampling Results

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-1	6/21/16	0 to 3	**4,416**	442
SC-2	6/21/16	3	**4,791**	743
SC-3	6/21/16	0 to 4	**4,507**	392
SC-4	6/21/16	4	**3,609**	221
SC-5	6/21/16	0 to 3	1.8	47.0
SC-6	6/21/16	0 to 4	13.0	55.0
SC-7	6/21/16	0 to 3	3.3	47.0
SC-8	6/21/16	0 to 4	15.8	40.5
SC-9	6/21/16	0 to 4	13.5	30.8
SC-10	6/21/16	0 to 3	8.3	66.3

Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000		
SC-2	6/21/16	3	<0.015	1.01	94	310	58
SC-4	6/21/16	4	<0.016	0.17	15	130	<50
SC-5	6/21/16	0 to 3	<0.024	<0.216	<4.8	9.7	<48
SC-6	6/21/16	0 to 4	<0.024	<0.219	<4.9	<9.5	<48
SC-7	6/21/16	0 to 3	<0.025	<0.224	<5.0	<9.6	<48
SC-8	6/21/16	0 to 4	<0.024	<0.22	<4.9	<9.9	<49
SC-9	6/21/16	0 to 4	<0.024	<0.22	<4.9	15	<46
SC-10	6/21/16	0 to 3	<0.023	<0.208	<4.6	17	69

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D.

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DRAWN BY:	DATE DRAWN:
C. Lameman	June 22, 2016
REVISIONS BY:	**DATE REVISED:**
S. Glasses	July 25, 2016
CHECKED BY:	**DATE CHECKED:**
E. Skyles	July 25, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	July 25, 2016

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

SCALE
15 10 5 0 15
(1 INCH = 15 FEET)

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: San Juan 28-7 #244M

Date: 8/26/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0.5'	8/26/2015	9:18	2,778	2,503	15:45	200.0	10	EMS
SB-1 @ 1'	8/26/2015	9:20	3,021	2,755	15:37	200.0	10	EMS
SB-2 @ 0.5'	8/26/2015	9:26	3,168	2,304	15:00	20.0	1	EMS
SB-2 @ 1'	8/26/2015	9:30	2,865	>2,500	15:08	20.0	1	EMS
SB-2 @ 1.5'	8/26/2015	9:34	2,664	9,423	15:19	200.0	10	EMS
SB-3 @ 0.5'	8/26/2015	9:36	2,709	*Not Analyzed for TPH*				
SB-3 @ 1'	8/26/2015	9:39	3,066	420	15:32	20.0	1	EMS
SB-4 @ 0.5'	8/26/2015	9:42	32.3	*Not Analyzed for TPH*				
SB-4 @ 1.5'	8/26/2015	9:44	15.7	557	15:28	20.0	1	EMS
SB-5 @ 0.5'	8/26/2015	9:55	4.8	*Not Analyzed for TPH*				
SB-5 @ 1'	8/26/2015	10:00	4.6	48.8	15:36	20.0	1	EMS
SB-6 @ 0.5'	8/26/2015	10:04	8.8	*Not Analyzed for TPH*				
SB-6 @ 1.5'	8/26/2015	10:07	4.9	47.1	15:42	20.0	1	EMS

Report Finalized: 8/26/15

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-7 @ 0.5'	8/26/2015	10:12	3.8	*Not Analyzed for TPH*				
SB-7 @ 1'	8/26/2015	10:15	3.5	45.4	15:47	20.0	1	EMS

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit
**Field TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Erik Sly

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: San Juan 28-7 #244M

Date: 6/21/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/21/2016	13:12	S ½ Excav Walls	4,416	442	14:22	20.0	1	CL
SC-2	6/21/2016	13:17	S Base	4,791	743	14:27	20.0	1	CL
SC-3	6/21/2016	13:21	N ½ Excav Walls	4,507	392	14:30	20.0	1	CL
SC-4	6/21/2016	13:25	N Base	3,609	221	14:33	20.0	1	CL
SC-5	6/21/2016	14:56	South Wall	1.8	47.0	16:06	20.0	1	CL
SC-6	6/21/2016	15:15	N ½ E Wall	13.0	55.0	16:10	20.0	1	CL
SC-7	6/21/2016	15:21	S ½ E Wall	3.3	47.0	16:14	20.0	1	CL
SC-8	6/21/2016	15:24	North Wall	15.8	40.5	16:17	20.0	1	CL
SC-9	6/21/2016	15:27	N ½ W Wall	13.5	30.8	16:21	20.0	1	CL
SC-10	6/21/2016	15:30	S ½ W Wall	8.3	66.3	16:24	20.0	1	CL

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Cori Lee

Report Finalized: 6/21/16

*TPH concentrations recorded may be below PQL.

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

June 24, 2016

Emilee Skyles
Animas Environmental
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX

RE: COPC SJ 28-7 #244M OrderNo.: 1606C02

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/22/2016 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC SJ 28-7 #244M
Lab ID: 1606C02-001
Matrix: MEOH (SOIL)
Client Sample ID: SC-2
Collection Date: 6/21/2016 1:17:00 PM
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	310	10		mg/Kg	1	6/22/2016 3:38:21 PM	25991
Surr: DNOP	94.4	70-130		%Rec	1	6/22/2016 3:38:21 PM	25991
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	94	3.1		mg/Kg	1	6/22/2016 2:11:48 PM	25976
Surr: BFB	777	80-120	S	%Rec	1	6/22/2016 2:11:48 PM	25976
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.015		mg/Kg	1	6/22/2016 2:11:48 PM	25976
Toluene	0.060	0.031		mg/Kg	1	6/22/2016 2:11:48 PM	25976
Ethylbenzene	ND	0.031		mg/Kg	1	6/22/2016 2:11:48 PM	25976
Xylenes, Total	0.95	0.062		mg/Kg	1	6/22/2016 2:11:48 PM	25976
Surr: 4-Bromofluorobenzene	132	80-120	S	%Rec	1	6/22/2016 2:11:48 PM	25976

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: Animas Environmental
Project: COPC SJ 28-7 #244M
Lab ID: 1606C02-002
Matrix: MEOH (SOIL)
Client Sample ID: SC-4
Collection Date: 6/21/2016 1:25:00 PM
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	130	10		mg/Kg	1	6/22/2016 4:06:44 PM	25991
Surr: DNOP	91.2	70-130		%Rec	1	6/22/2016 4:06:44 PM	25991
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	15	3.1		mg/Kg	1	6/22/2016 2:35:19 PM	25976
Surr: BFB	219	80-120	S	%Rec	1	6/22/2016 2:35:19 PM	25976
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.016		mg/Kg	1	6/22/2016 2:35:19 PM	25976
Toluene	ND	0.031		mg/Kg	1	6/22/2016 2:35:19 PM	25976
Ethylbenzene	ND	0.031		mg/Kg	1	6/22/2016 2:35:19 PM	25976
Xylenes, Total	0.17	0.063		mg/Kg	1	6/22/2016 2:35:19 PM	25976
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/22/2016 2:35:19 PM	25976

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#: **1606C02**

24-Jun-16

Client: Animas Environmental
Project: COPC SJ 28-7 #244M

Sample ID **MB-25991**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25991**	RunNo: **35092**
Prep Date: **6/22/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085623** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		94.8	70	130			

Sample ID **LCS-25991**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25991**	RunNo: **35092**
Prep Date: **6/22/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085624** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	62.6	124			
Surr: DNOP	4.9		5.000		97.3	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#: **1606C02**

24-Jun-16

Client: Animas Environmental
Project: COPC SJ 28-7 #244M

Sample ID	**MB-25976**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**PBS**	Batch ID:	**25976**	RunNo:	**35097**
Prep Date:	**6/21/2016**	Analysis Date:	**6/22/2016**	SeqNo:	**1085943** 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	1000		1000		101	80	120			

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#: **1606C02**

24-Jun-16

Client: Animas Environmental
Project: COPC SJ 28-7 #244M

Sample ID **MB-25976**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25976**	RunNo: **35097**
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085953** 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	0.98		1.000		97.5	80	120			

Sample ID **LCS-25976**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25976**	RunNo: **35097**
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085954** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.7	75.3	123			
Toluene	0.98	0.050	1.000	0	97.7	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.4	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	98.2	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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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: Animas Environmental Work Order Number: 1606C02 RcptNo: 1

Received by/date: 06/22/16

Logged By: Ashley Gallegos 6/22/2016 8:10:00 AM

Completed By: Ashley Gallegos 6/22/2016 8:42:54 AM

Reviewed By: 06/22/16

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	4.3	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: Animas Environmental Services, LLC	Turn-Around Time: ☐ Standard X Rush Same Day
	Project Name: COPC SJ 28-7 #244M
Mailing Address: 604 W Pinon St. Farmington, NM 87401	Project #:
Phone #: 505-564-2281	
Mail or Fax#: eskyles@animasenvironmental.com	Project Manager: E. Skyles
QA/QC Package: Standard ☐ Level 4 (Full Validation)	
Accreditation: NELAP ☐ Other	Sampler: CL
EDD (Type)	On Ice: ☒ Yes ☐ No
	Sample Temperature: 4.3

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX - 8021B	TPH - EPA 418.1 & 8015B GRO DRO	Chlorides - 300.0											Air Bubbles (Y or N)
6-1-16	1317	Soil	SC-2	MeOH Kit 1-4oz jar	Meat / Cool	1606C02-001	X	X												
6-1-16	1325	Soil	SC-4	MeOH kit 1-4oz jar	MeOH / Cool	-002	X	X												

Date	Time	Relinquished by:	Received by:	Date	Time
6-1-16	2010			6/21/16	2010
6/21/16	2040			06/22/16	0810

Remarks: Bill to Conoco Phillips
WO #
Supervisor: Erin Wyckoff
USERID: KGARCIA
Area: 23
Ordered by: Lisa Hunter

Call with questions.

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

June 29, 2016

Emilee Skyles
Animas Environmental
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX

RE: COPC SJ 28-7 #244M OrderNo.: 1606C21

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/22/2016 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-5
Project: COPC SJ 28-7 #244M
Collection Date: 6/21/2016 2:56:00 PM
Lab ID: 1606C21-001
Matrix: SOIL
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	9.7	9.6		mg/Kg	1	6/27/2016 4:50:50 PM	25992
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2016 4:50:50 PM	25992
Surr: DNOP	97.6	70-130		%Rec	1	6/27/2016 4:50:50 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2016 4:52:15 AM	25994
Surr: BFB	97.1	80-120		%Rec	1	6/27/2016 4:52:15 AM	25994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 4:52:15 AM	25994
Toluene	ND	0.048		mg/Kg	1	6/27/2016 4:52:15 AM	25994
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2016 4:52:15 AM	25994
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2016 4:52:15 AM	25994
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	6/27/2016 4:52:15 AM	25994

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

Qualifiers:

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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: Animas Environmental
Project: COPC SJ 28-7 #244M
Lab ID: 1606C21-002 **Matrix:** SOIL

Client Sample ID: SC-6
Collection Date: 6/21/2016 3:15:00 PM
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/27/2016 5:12:35 PM	25992
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2016 5:12:35 PM	25992
Surr: DNOP	99.7	70-130		%Rec	1	6/27/2016 5:12:35 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2016 5:15:34 AM	25994
Surr: BFB	98.4	80-120		%Rec	1	6/27/2016 5:15:34 AM	25994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 5:15:34 AM	25994
Toluene	ND	0.049		mg/Kg	1	6/27/2016 5:15:34 AM	25994
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2016 5:15:34 AM	25994
Xylenes, Total	ND	0.097		mg/Kg	1	6/27/2016 5:15:34 AM	25994
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	6/27/2016 5:15:34 AM	25994

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: Animas Environmental
Project: COPC SJ 28-7 #244M
Lab ID: 1606C21-003 **Matrix:** SOIL

Client Sample ID: SC-7
Collection Date: 6/21/2016 3:21:00 PM
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/27/2016 5:34:28 PM	25992
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2016 5:34:28 PM	25992
Surr: DNOP	101	70-130		%Rec	1	6/27/2016 5:34:28 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2016 5:38:53 AM	25994
Surr: BFB	99.0	80-120		%Rec	1	6/27/2016 5:38:53 AM	25994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/27/2016 5:38:53 AM	25994
Toluene	ND	0.050		mg/Kg	1	6/27/2016 5:38:53 AM	25994
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2016 5:38:53 AM	25994
Xylenes, Total	ND	0.099		mg/Kg	1	6/27/2016 5:38:53 AM	25994
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	6/27/2016 5:38:53 AM	25994

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
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC SJ 28-7 #244M
Lab ID: 1606C21-004 **Matrix:** SOIL

Client Sample ID: SC-8
Collection Date: 6/21/2016 3:24:00 PM
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/27/2016 5:56:11 PM	25992
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/27/2016 5:56:11 PM	25992
Surr: DNOP	103	70-130		%Rec	1	6/27/2016 5:56:11 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2016 6:02:09 AM	25994
Surr: BFB	97.3	80-120		%Rec	1	6/27/2016 6:02:09 AM	25994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 6:02:09 AM	25994
Toluene	ND	0.049		mg/Kg	1	6/27/2016 6:02:09 AM	25994
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2016 6:02:09 AM	25994
Xylenes, Total	ND	0.098		mg/Kg	1	6/27/2016 6:02:09 AM	25994
Surr: 4-Bromofluorobenzene	93.3	80-120		%Rec	1	6/27/2016 6:02:09 AM	25994

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: Animas Environmental
Project: COPC SJ 28-7 #244M
Lab ID: 1606C21-005 **Matrix:** SOIL

Client Sample ID: SC-9
Collection Date: 6/21/2016 3:27:00 PM
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	15	9.2		mg/Kg	1	6/27/2016 6:18:30 PM	25992
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/27/2016 6:18:30 PM	25992
Surr: DNOP	99.8	70-130		%Rec	1	6/27/2016 6:18:30 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2016 6:25:26 AM	25994
Surr: BFB	98.5	80-120		%Rec	1	6/27/2016 6:25:26 AM	25994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 6:25:26 AM	25994
Toluene	ND	0.049		mg/Kg	1	6/27/2016 6:25:26 AM	25994
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2016 6:25:26 AM	25994
Xylenes, Total	ND	0.098		mg/Kg	1	6/27/2016 6:25:26 AM	25994
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	6/27/2016 6:25:26 AM	25994

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: Animas Environmental
Project: COPC SJ 28-7 #244M
Lab ID: 1606C21-006 **Matrix:** SOIL

Client Sample ID: SC-10
Collection Date: 6/21/2016 3:30:00 PM
Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	6/27/2016 6:40:36 PM	25992
Motor Oil Range Organics (MRO)	69	49		mg/Kg	1	6/27/2016 6:40:36 PM	25992
Surr: DNOP	94.4	70-130		%Rec	1	6/27/2016 6:40:36 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2016 6:48:48 AM	25994
Surr: BFB	99.6	80-120		%Rec	1	6/27/2016 6:48:48 AM	25994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2016 6:48:48 AM	25994
Toluene	ND	0.046		mg/Kg	1	6/27/2016 6:48:48 AM	25994
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2016 6:48:48 AM	25994
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2016 6:48:48 AM	25994
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	6/27/2016 6:48:48 AM	25994

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#: **1606C21**

29-Jun-16

Client: Animas Environmental
Project: COPC SJ 28-7 #244M

Sample ID **LCS-26058**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26058**	RunNo: **35221**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089122** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	70	130			

Sample ID **MB-26058**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26058**	RunNo: **35221**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089123** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		95.6	70	130			

Sample ID **MB-25992**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25992**	RunNo: **35221**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089257** 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	8.9		10.00		88.6	70	130			

Sample ID **LCS-25992**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25992**	RunNo: **35221**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089274** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	62.6	124			
Surr: DNOP	4.8		5.000		96.6	70	130			

Sample ID **1606B73-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **25992**	RunNo: **35219**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089739** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.2	45.87	2.122	80.5	33.9	141			
Surr: DNOP	4.3		4.587		93.9	70	130			

Sample ID **1606B73-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **25992**	RunNo: **35219**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089740** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.4	46.90	2.122	82.9	33.9	141	4.91	20	

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#: **1606C21**

29-Jun-16

Client: Animas Environmental

Project: COPC SJ 28-7 #244M

Sample ID **1606B73-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **25992**	RunNo: **35219**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089740** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		4.690		92.3	70	130	0	0	

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#: **1606C21**

29-Jun-16

Client: Animas Environmental

Project: COPC SJ 28-7 #244M

Sample ID	MB-25994	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	25994		RunNo:	35223				
Prep Date:	6/22/2016	Analysis Date:	6/27/2016		SeqNo:	1089084	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	990		1000		99.1	80	120			

Sample ID	LCS-25994	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	25994		RunNo:	35223				
Prep Date:	6/22/2016	Analysis Date:	6/27/2016		SeqNo:	1089085	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	80	120			
Surr: BFB	1100		1000		109	80	120			

Sample ID	1606B73-001AMS	SampType:	MS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	BatchQC	Batch ID:	25994		RunNo:	35223				
Prep Date:	6/22/2016	Analysis Date:	6/27/2016		SeqNo:	1089087	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.80	0	96.5	59.3	143			
Surr: BFB	1100		992.1		107	80	120			

Sample ID	1606B73-001AMSD	SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	BatchQC	Batch ID:	25994		RunNo:	35223				
Prep Date:	6/22/2016	Analysis Date:	6/27/2016		SeqNo:	1089088	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.06	0	103	59.3	143	3.16	20	
Surr: BFB	1000		962.5		109	80	120	0	0	

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#: **1606C21**

29-Jun-16

Client: Animas Environmental
Project: COPC SJ 28-7 #244M

Sample ID **MB-25994**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089121** 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	0.97		1.000		96.8	80	120			

Sample ID **LCS-25994**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089124** 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	106	75.3	123			
Toluene	1.1	0.050	1.000	0	108	80	124			
Ethylbenzene	1.1	0.050	1.000	0	109	82.8	121			
Xylenes, Total	3.2	0.10	3.000	0	107	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID **1606B85-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089150** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.023	0.9337	0	92.8	71.5	122			
Toluene	0.87	0.047	0.9337	0	93.2	71.2	123			
Ethylbenzene	0.90	0.047	0.9337	0	96.1	75.2	130			
Xylenes, Total	2.7	0.093	2.801	0	94.8	72.4	131			
Surr: 4-Bromofluorobenzene	0.95		0.9337		102	80	120			

Sample ID **1606B85-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089151** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.023	0.9294	0	94.9	71.5	122	1.76	20	
Toluene	0.88	0.046	0.9294	0	94.7	71.2	123	1.10	20	
Ethylbenzene	0.90	0.046	0.9294	0	96.3	75.2	130	0.250	20	
Xylenes, Total	2.6	0.093	2.788	0	94.9	72.4	131	0.430	20	
Surr: 4-Bromofluorobenzene	0.93		0.9294		101	80	120	0	0	

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: Animas Environmental Work Order Number: 1606C21 RcptNo: 1

Received by/date: 06/22/16

Logged By: Ashley Gallegos 6/22/2016 8:10:00 AM

Completed By: Ashley Gallegos 6/22/2016 12:38:22 PM

Reviewed By: IO 06/22/16

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	4.3	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: Animas Environmental Services, LLC	Turn-Around Time: X Standard ☐ Rush
	Project Name: COPC SJ 28-7 #244M
Mailing Address: 604 W Pinon St. Farmington, NM 87401	Project #:
Phone #: 505-564-2281	
email or Fax#: eskyles@animasenvironmental.com	Project Manager: E. Skyles
QA/QC Package: Standard ☐ Level 4 (Full Validation)	
Accreditation: NELAP ☐ Other	Sampler: CL
EDD (Type)	On Ice: X Yes ☐ No
	Sample Temperature: 4.3

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1606C21	BTEX - 8021B	TPH - EPA 418.1 / 8015B GRO DRO	Chlorides - 300.0	Air Bubbles (Y or N)
6-16	1456	Soil	SC-5	1-4oz jar	Cool	-001	X	X		
	1515		SC-6			-002	X	X		
	1521		SC-7			-003	X	X		
	1534		SC-8			-004	X	X		
	1527		SC-9			-005	X	X		
↓	1530	↓	SC-10	↓	↓	-006	X	X		

Date	Time	Relinquished by:	Received by:	Date	Time
6-21-16	2010			6/21/16	2010
6/21/16	2040			06/22/16	0810

Remarks: Bill to Conoco Phillips
WO #
Supervisor: Erin Wyckoff
USERID: KGARCIA
Area: 23
Ordered by: Lisa Hunter

Call with questions

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.