

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: Huerfano Unit 55	Facility Type: Gas Well

Surface Owner Federal	Mineral Owner Federal	API No. 3004505691
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LOCATION OF RELEASE

Unit Letter H	Section 27	Township 26N	Range 09W	Feet from the 1750	North/South Line North	Feet from the 990	East/West Line East	County San Juan
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Latitude 36.46137 Longitude -107.77093

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered Unknown
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 06/21/2016 10:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	OIL CONS. DIV DIST. 3

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

NOV 28 2016

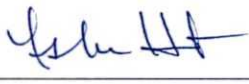
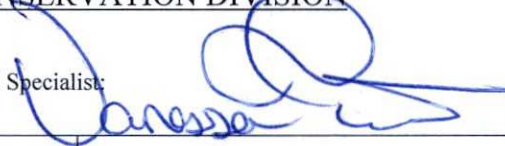
Describe Cause of Problem and Remedial Action Taken.*

Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.

Describe Area Affected and Cleanup Action Taken.*

NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 0. Samples were collected and analytical results are below applicable NMOCD action levels. No further work will be performed. The final 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	
Printed Name: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 12/9/2016	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval: NF 1634428261	Attached <input type="checkbox"/>
Date: November 21, 2016	Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary

29



November 15, 2016

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

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

**RE: Below Grade Tank Closure Report
Huerfano Unit 55
San Juan County, New Mexico**

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (COPC) Huerfano Unit 55, located in San Juan County, New Mexico. Tank removal was completed by COPC contractors while AES was on site.

1.0 Site Information

1.1 Location

Site Name – Huerfano Unit 55

Legal Description – SE¼ NE¼, Section 27, T26N, R9W, San Juan County, New Mexico

Well Latitude/Longitude – N36.46168 and W107.77100, respectively

BGT Latitude/Longitude – N36.46137 and W107.77093, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, June 2016

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the location was given a ranking score of 0 based on the following factors:

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

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

- **Depth to Groundwater:** A cathodic report form dated February 1992 reported the depth to groundwater at 130 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The tank location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Unnamed wash located 1,020 feet northeast of the location. (0 points)

1.3 BGT Closure Assessment

AES was initially contacted by Lisa Hunter of COPC on June 15, 2016, and on June 21, 2016, Sam Glasses of AES mobilized to the location. AES personnel collected one 5-point soil sample composited from four perimeter samples and one center sample of the BGT footprint from below the BGT liner, and two soil samples each composited from the north wall.

Because analytical laboratory hold times for select parameters had been exceeded for the June 2016 field work, AES returned to the location on August 21, 2016, to re-sample the former BGT footprint. AES personnel collected two 5-point soil samples composited from four perimeter samples and one center sample of the BGT footprint from below the former BGT (backfilled and returned to grade), at depths of 6 feet bgs and 8 feet bgs, respectively.

2.0 Soil Sampling

On June 21, 2016, AES personnel conducted field sampling and collected one 5-point composite (BGT SC-1) from below the BGT and two composite samples (BGT SC-2 and BGT SC-3) from the north wall. Soil was collected from approximately 0.5 feet to 2.0 feet below the base of the former BGT (which was approximately 4.5 to 6 feet below adjacent ground surface). Soil samples BGT SC-1, BGT SC-2 and BGT SC-3 were field screened for volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chloride, and were submitted for confirmation laboratory analysis.

On August 21, 2016, AES personnel returned to the location to collect two 5-point composite samples, RSC-1 (6 ft bgs) and RSC-1 (8 ft bgs), from below the former BGT. Note that the August sample depths measured from ground surface correspond to the June sample depths, which were measured from below the base of the former BGT. Soil samples were submitted for laboratory analysis.

Soil sample locations for June and August 2016 are included on Figure 2.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

A portion of each sample from BGT SC-1, BGT SC-2, and BGT SC-3 was utilized for field screening of VOC vapors 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

Soil samples BGT SC-1, BGT SC-2, and BGT SC-3 were also analyzed in the field for TPH 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*.

2.1.3 Chlorides

Soil sample BGT SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The composite soil samples from June 2016 (BGT SC-1, BGT SC-2 and BGT SC-3) and from August 2016 (RSC-1 (6 ft and 8 ft)) 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. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico.

Soil samples BGT SC-1, BGT SC-2 and BGT SC-3 (June 2016) were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B;
- TPH per USEPA Method 418.1 and as GRO/DRO/MRO per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

Soil samples RSC-1 (6 ft) and RSC-1 (8 ft) (August 2016) were analyzed for:

- BTEX per USEPA Method 8021B; and
- TPH (as GRO/DRO/MRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.3 ppm to 1.6 ppm. Field TPH concentrations ranged from 69.5 mg/kg in SC-3 to above the field quantitation range (1,500 mg/kg) in SC-2 with 3,270 mg/kg. The field chloride concentration was 40 mg/kg in BGT SC-1. Field sampling results are summarized in Table 1 and presented on Figure 2. The AES Field Sampling Report is attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results
Huerfano Unit 55 BGT Closure, June 2016

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)			--	100/5,000*	250/NE*
BGT SC-1	6/21/16	0.5	0.3	>1,500 (3,270)	40
BGT SC-2 (North Wall)	6/21/16	0.5	1.6	>1,500 (1,730)	NA
BGT SC-3 (North Wall)	6/21/16	2.0	0.4	69.5	NA

NA - not analyzed

NE - not established

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

June 2016 laboratory analytical results reported benzene and total BTEX concentrations below laboratory detection limits in all samples. TPH concentrations ranged from below detection limits in BGT SC-3 (TPH 418.1) up to 18,000 mg/kg (TPH 418.1) in BGT SC-1. The laboratory chloride concentration varied from below the laboratory detection limit of 30 mg/kg to 240 mg/kg in BGT SC-1. Note that DRO and MRO concentrations were laboratory-analyzed just outside of holding times (14 days) and were reported as 1,400 mg/kg DRO and 11,000 mg/kg MRO (BGT SC-1) and 880 mg/kg DRO and 7,100 mg/kg MRO (BGT SC-2).

August 2016 laboratory analytical results of both samples reported benzene and total BTEX concentrations below laboratory detection limits. TPH concentrations (as GRO/DRO/MRO) were reported at 1,870 mg/kg in RSC-1 (6 ft) and at 89 mg/kg in RSC-1 (8 ft). Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Huerfano Unit 55 BGT Closure, June and August 2016

Sample ID	Date Sampled	Depth below BGT (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (418.1) (mg/kg)	TPH GRO (8015) (mg/kg)	TPH DRO (8015) (mg/kg)	TPH MRO (8015) (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)			0.2/10*	50	100/5,000*		100/5,000*		250/NE*
BGT SC-1	6/21/16	0.5	<0.024	<0.216	18,000	<4.8	1,400 ¹	11,000 ¹	240
BGT SC-2	6/21/16	0.5	<0.023	<0.207	6,700	<4.6	880 ¹	7,100 ¹	<30
BGT SC-3	6/21/16	2.0	<0.024	<0.213	<18	<4.7	<9.4	<47	<30
RSC-1 (6 ft)	8/26/16	6.0 ft bgs	<0.025	<0.225	NA	<5.0	170	1,700	NA
RSC-1 (8 ft)	8/26/16	8.0 ft bgs	<0.025	<0.221	NA	<4.9	11	78	NA

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

NA - not analyzed

NE - not established

1 – Sample analyzed just outside of the 14 day hold time

3.0 Conclusions and Recommendations

3.1 BGT Closure

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Benzene and total BTEX concentrations were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively, in all samples. In contrast, field TPH concentrations were above the quantitation level (1,500 mg/kg), with 3,270 mg/kg in BGT SC-1 and 1,730 mg/kg in BGT SC-2, both of which exceeded the NMOCD action level of 100 mg/kg. Laboratory analytical results from June 2016 reported 18,000 mg/kg (TPH 418.1) at BGT SC-1 and 6,700 mg/kg (TPH 418.1) at BGT SC-2. Note that DRO and MRO concentrations were run just outside of the 14 day hold time and showed results of 1,400 mg/kg DRO and 11,000 mg/kg MRO (BGT SC-1) and 880 mg/kg DRO and 7,100 mg/kg MRO (BGT SC-2).

Because of the hold time exceedances in June 2016, re-sampling was conducted in August 2016 for TPH as GRO, DRO and MRO. Laboratory analytical results showed TPH concentrations in RSC-1 (6 ft bgs) at 170 mg/kg DRO and 1,700 mg/kg MRO. RSC-1 (8 ft

bgs) reported 11 mg/kg DRO and 78 mg/kg MRO. Based on field sampling and laboratory analytical results on June 21 and August 26, 2016, a release was confirmed at the Huerfano Unit 55 location.

3.2 Release Confirmation

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 0. Benzene and total BTEX concentrations in all samples were below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. TPH concentrations, by USEPA Method 418.1 were above the action level of 5,000 mg/kg in SC-1 and SC-2, with 18,000 mg/kg and 6,700 mg/kg, respectively (June 2016), and TPH concentrations (analyzed by USEPA Method 8015) were reported as 1,400 mg/kg DRO and 11,000 mg/kg MRO in BGT SC-1 and 880 mg/kg DRO and 7,100 mg/kg MRO in BGT SC-2.

Because hold times were exceeded for the DRO and MRO components in the June 2016 samples, AES returned to the location to resample in August 2016. Note that sample depths were at the same interval as the June 2016 sampling. August 2016 results showed that benzene and total BTEX concentrations were below laboratory detection limits; TPH concentrations were below laboratory detection limits for GRO; and below the action level of 5,000 mg/kg for DRO and MRO in RSC-1 (6 ft bgs) and in RSC-1 (8 ft bgs). All soil laboratory analyses showed that chloride concentrations were below the NMOCD action level for all samples analyzed.

Release notification should follow the protocols outlined in NMAC 19.15.29 and 30. June 2016 benzene, total BTEX and GRO concentrations were below laboratory detection limits. Elevated concentrations of DRO and MRO were detected in the June 2016 sampling event, but because these parameters were run just outside of laboratory hold times, re-sampling of the location was conducted in August 2016. Because elevated concentrations reported in June 2016 consisted primarily of the motor oil range organics (MRO), which are less volatile and less mobile in the sub-surface, and because re-sampling of the former BGT location did not result in concentrations above the action level, no further work is recommended for the Huerfano Unit 55.

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

Sincerely,



David Reese
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, June 2016
AES Field Sampling Report 062116
Hall Analytical Report 1606C22
Hall Analytical Report 1608G58

\\SVRMAIN2\Shared\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects
Dropbox\2016 Client Projects\ConocoPhillips\Huerfano 55\COPC Huerfano Unit 55 BGT Closure Report
111516.docx

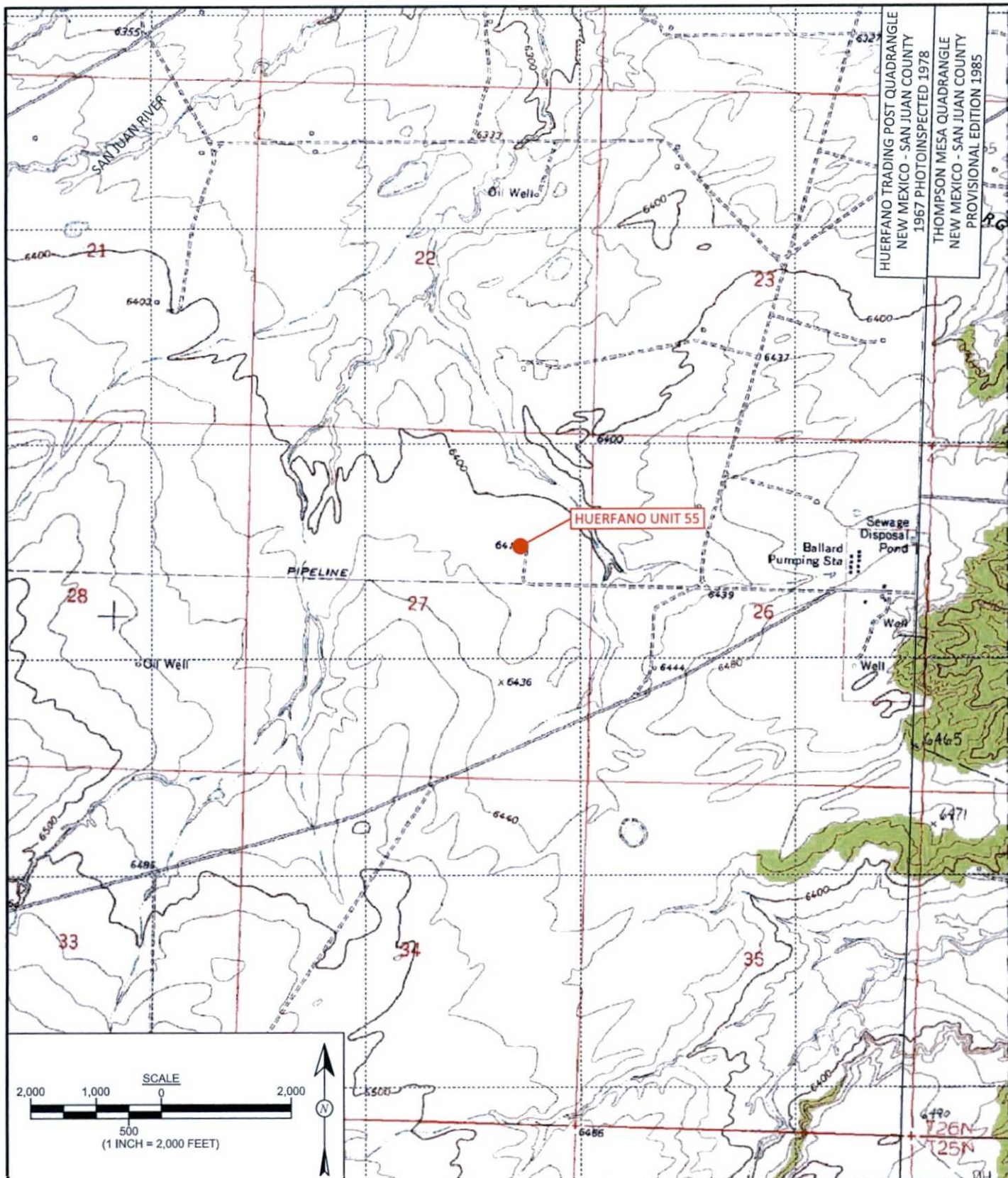


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
HUERFANO UNIT 55
SE¼ NE¼, SECTION 27, T26N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.46168, W107.77100



**animas
environmental
services**
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:
C. Lameman

DATE DRAWN:
March 25, 2016

REVISIONS BY:
S. Glasses

DATE REVISED:
June 22, 2016

CHECKED BY:
E. Skyles

DATE CHECKED:
June 22, 2016

APPROVED BY:
E. McNally

DATE APPROVED:
June 22, 2016

LEGEND

● SAMPLE LOCATIONS

Field Sampling Results

Sample ID	Date	Depth Below BGT (ft)	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			--	100/5,000*	250/NE*
BGT SC-1	6/21/16	0.5	0.3	>1,500 (3,270)	40
BGT SC-2	6/21/16	0.5	1.6	>1,500 (1,730)	NA
BGT SC-3	6/21/16	2.0	0.4	69.5	NA

BGT SC-1 IS A 5-POINT COMPOSITE SAMPLE. BGT SC-2 AND BGT SC-3 ARE COMPOSITE SAMPLES OF NORTH WALL.
NA - NOT ANALYZED, NE - NOT ESTABLISHED.

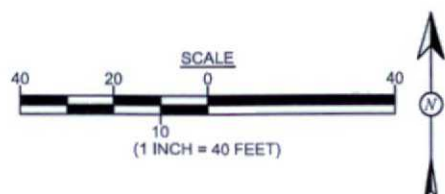
Laboratory Analytical Results

Sample ID	Date	Depth Below BGT (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			0.2/10*	50	100/5,000*	100/5,000*			250/NE*
BGT SC-1	6/21/16	0.5	<0.024	<0.216	18,000	<4.8	1,400	11,000	240
BGT SC-2	6/21/16	0.5	<0.023	<0.207	6,700	<4.6	880	7,100	<30
BGT SC-3	6/21/16	2.0	<0.024	<0.213	<18	<4.7	<9.4	<47	<30
RSC-1	8/26/16	6.0 ft bgs	<0.025	<0.225	NA	<5.0	170	1,700	NA
RSC-1	8/26/16	8.0 ft bgs	<0.025	<0.221	NA	<4.9	11	78	NA

BGT SC-1 THROUGH BGT SC-3 WERE ANALYZED PER USEPA METHOD 8021B, 418.1 AND 300.0. RSC-1 WAS ANALYZED PER USEPA METHOD 8021B AND 8015. NA - NOT ANALYZED, NE - NOT ESTABLISHED



AERIAL SOURCE: © 2015 GOOGLE EARTH PRO, AERIAL DATE: MARCH 16, 2016



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environmental
services

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:
C. Lameman

DATE DRAWN:
June 22, 2016

REVISIONS BY:
S. Glasses

DATE REVISED:
November 18, 2016

CHECKED BY:
E. McNally

DATE CHECKED:
November 18, 2016

APPROVED BY:
E. McNally

DATE APPROVED:
November 18, 2016

FIGURE 2

AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
JUNE AND AUGUST 2016

ConocoPhillips
HUERFANO UNIT 55
SE¼ NE¼, SECTION 27, T26N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.46168, W107.77100



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

November 18, 2016

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

RE: COPC Huerfano Unit 55

OrderNo.: 1606C22

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/22/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 08, 2016.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1606C22

Date Reported: 11/18/2016

CLIENT: Animas Environmental

Client Sample ID: BGT SC-1

Project: COPC Huerfano Unit 55

Collection Date: 6/21/2016 11:05:00 AM

Lab ID: 1606C22-001

Matrix: SOIL

Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: KJH
Petroleum Hydrocarbons, TR	18000	1900		mg/Kg	100	6/29/2016 12:00:00 PM	26119
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	240	30		mg/Kg	20	6/27/2016 5:40:21 PM	26092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1400	950		mg/Kg	100	7/6/2016 1:32:18 PM	26224
Motor Oil Range Organics (MRO)	11000	4800		mg/Kg	100	7/6/2016 1:32:18 PM	26224
Surr: DNOP	0	70-130	S	%Rec	100	7/6/2016 1:32:18 PM	26224
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2016 8:28:57 AM	25994
Surr: BFB	99.6	80-120		%Rec	1	6/27/2016 8:28:57 AM	25994
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2016 8:28:57 AM	25994
Toluene	ND	0.048		mg/Kg	1	6/27/2016 8:28:57 AM	25994
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2016 8:28:57 AM	25994
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2016 8:28:57 AM	25994
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	6/27/2016 8:28:57 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

Analytical Report

Lab Order 1606C22

Date Reported: 11/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: BGT SC-2

Project: COPC Huerfano Unit 55

Collection Date: 6/21/2016 12:44:00 PM

Lab ID: 1606C22-002

Matrix: SOIL

Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: KJH
Petroleum Hydrocarbons, TR	6700	190		mg/Kg	10	6/29/2016 12:00:00 PM	26119
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	6/27/2016 6:17:35 PM	26092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	880	470		mg/Kg	50	7/6/2016 3:00:45 PM	26224
Motor Oil Range Organics (MRO)	7100	2400		mg/Kg	50	7/6/2016 3:00:45 PM	26224
Surr: DNOP	0	70-130	S	%Rec	50	7/6/2016 3:00:45 PM	26224
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2016 8:52:25 AM	25994
Surr: BFB	97.9	80-120		%Rec	1	6/27/2016 8:52:25 AM	25994
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/27/2016 8:52:25 AM	25994
Toluene	ND	0.046		mg/Kg	1	6/27/2016 8:52:25 AM	25994
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2016 8:52:25 AM	25994
Xylenes, Total	ND	0.092		mg/Kg	1	6/27/2016 8:52:25 AM	25994
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	6/27/2016 8:52:25 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

Analytical Report

Lab Order 1606C22

Date Reported: 11/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: BGT SC-3

Project: COPC Huerfano Unit 55

Collection Date: 6/21/2016 1:15:00 PM

Lab ID: 1606C22-003

Matrix: SOIL

Received Date: 6/22/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: KJH
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	6/29/2016 12:00:00 PM	26119
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	6/27/2016 6:54:49 PM	26092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/6/2016 2:37:34 PM	26224
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/6/2016 2:37:34 PM	26224
Surr: DNOP	95.0	70-130		%Rec	1	7/6/2016 2:37:34 PM	26224
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2016 9:15:56 AM	25994
Surr: BFB	98.6	80-120		%Rec	1	6/27/2016 9:15:56 AM	25994
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/27/2016 9:15:56 AM	25994
Toluene	ND	0.047		mg/Kg	1	6/27/2016 9:15:56 AM	25994
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2016 9:15:56 AM	25994
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2016 9:15:56 AM	25994
Surr: 4-Bromofluorobenzene	92.9	80-120		%Rec	1	6/27/2016 9:15:56 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#: 1606C22

18-Nov-16

Client: Animas Environmental

Project: COPC Huerfano Unit 55

Sample ID	MB-26092	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	26092	RunNo	35241					
Prep Date	6/27/2016	Analysis Date	6/27/2016	SeqNo	1089804	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-26092	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	26092	RunNo	35241					
Prep Date	6/27/2016	Analysis Date	6/27/2016	SeqNo	1089805	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

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#: 1606C22

18-Nov-16

Client: Animas Environmental
Project: COPC Huerfano Unit 55

Sample ID	MB-26119	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	26119	RunNo:	35304					
Prep Date:	6/28/2016	Analysis Date:	6/29/2016	SeqNo:	1091911	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-26119	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	26119	RunNo:	35304					
Prep Date:	6/28/2016	Analysis Date:	6/29/2016	SeqNo:	1091912	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	103	83.4	127			

Sample ID	LCSD-26119	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	26119	RunNo:	35304					
Prep Date:	6/28/2016	Analysis Date:	6/29/2016	SeqNo:	1091913	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	98	20	100.0	0	98.1	83.4	127	5.24	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#: 1606C22

18-Nov-16

Client: Animas Environmental

Project: COPC Huerfano Unit 55

Sample ID	MB-26224	SampType	MBLK	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	PBS	Batch ID	26224	RunNo	35437					
Prep Date	7/5/2016	Analysis Date	7/6/2016	SeqNo	1096560	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	9.5		10.00		94.6	70	130			

Sample ID	LCS-26224	SampType	LCS	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	LCSS	Batch ID	26224	RunNo	35437					
Prep Date	7/5/2016	Analysis Date	7/6/2016	SeqNo	1096561	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.7	62.6	124			
Surr: DNOP	4.1		5.000		82.6	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#: 1606C22

18-Nov-16

Client: Animas Environmental
Project: COPC Huerfano Unit 55

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			

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#: 1606C22

18-Nov-16

Client: Animas Environmental

Project: COPC Huerfano Unit 55

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			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



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: 1606C22

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

6/22/2016 8:10:00 AM

Completed By: Ashley Gallegos

6/22/2016 1:11:17 PM

Reviewed By: JO

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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes			

Client: Animas Environmental Services, LLC

☒ Standard ☐ Rush

Mailing Address: 604 W Pinon St.

COPC Huerfano Unit 55

Farmington, NM 87401

Project #:

hone #: 505-564-2281

mail or Fax#: eskyles@animasenvironmental.com

Project Manager:

A/QC Package:

E. Skyles

☐ Level 4 (Full Validation)

ccreditation:

Sampler: SG

☒ NELAP ☐ Other

On Ice: ☒ Yes ☐ No

EDD (Type)

Sample Temperature: 4.3

[illegible]

ite:	Time:	Relinquished by:	Received by:	Date	Time
21-16	2010	<i>[Signature]</i>	<i>[Signature]</i>	6/24/10	2010

Remarks: Bill to Conoco Phillips
WO #1034461
Supervisor: Jack Birchfield
USERID: KGARCIA
Area: 6
Ordered by: Lisa Hunter

ite:	Time:	Relinquished by:	Received by:	Date	Time
24/10	2040	<i>[Signature]</i>	<i>[Signature]</i>	06/22/16	0810

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

November 15, 2016

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

RE: COPC Huerfano Unit 55

OrderNo.: 1608G58

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/27/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 06, 2016.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1608G58

Date Reported: 11/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: RSC-1@6'

Project: COPC Huerfano Unit 55

Collection Date: 8/26/2016 11:16:00 AM

Lab ID: 1608G58-001

Matrix: SOIL

Received Date: 8/27/2016 11:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	170	97		mg/Kg	10	9/1/2016 12:08:33 PM	27281
Motor Oil Range Organics (MRO)	1700	490		mg/Kg	10	9/1/2016 12:08:33 PM	27281
Surr: DNOP	0	70-130	S	%Rec	10	9/1/2016 12:08:33 PM	27281
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/31/2016 12:29:49 PM	27243
Surr: BFB	86.3	68.3-144		%Rec	1	8/31/2016 12:29:49 PM	27243
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/31/2016 12:29:49 PM	27243
Toluene	ND	0.050		mg/Kg	1	8/31/2016 12:29:49 PM	27243
Ethylbenzene	ND	0.050		mg/Kg	1	8/31/2016 12:29:49 PM	27243
Xylenes, Total	ND	0.10		mg/Kg	1	8/31/2016 12:29:49 PM	27243
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/31/2016 12:29:49 PM	27243

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

Analytical Report

Lab Order 1608G58

Date Reported: 11/15/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: RSC-1@8'

Project: COPC Huerfano Unit 55

Collection Date: 8/26/2016 11:24:00 AM

Lab ID: 1608G58-002

Matrix: SOIL

Received Date: 8/27/2016 11:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	9/1/2016 12:30:21 PM	27281
Motor Oil Range Organics (MRO)	78	47		mg/Kg	1	9/1/2016 12:30:21 PM	27281
Surr: DNOP	84.4	70-130		%Rec	1	9/1/2016 12:30:21 PM	27281
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2016 2:27:14 PM	27243
Surr: BFB	84.4	68.3-144		%Rec	1	8/31/2016 2:27:14 PM	27243
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/31/2016 2:27:14 PM	27243
Toluene	ND	0.049		mg/Kg	1	8/31/2016 2:27:14 PM	27243
Ethylbenzene	ND	0.049		mg/Kg	1	8/31/2016 2:27:14 PM	27243
Xylenes, Total	ND	0.098		mg/Kg	1	8/31/2016 2:27:14 PM	27243
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/31/2016 2:27:14 PM	27243

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#: 1608G58

15-Nov-16

Client: Animas Environmental
Project: COPC Huerfano Unit 55

Sample ID	LCS-27281		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 27281		RunNo: 36922					
Prep Date:	8/31/2016		Analysis Date: 9/1/2016		SeqNo: 1144520		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.4	62.6	124			
Surr: DNOP	3.9		5.000		77.1	70	130			

Sample ID	MB-27281		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	27281		RunNo:	36922				
Prep Date:	8/31/2016		Analysis Date:	9/1/2016		SeqNo:	1144521		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	8.2		10.00		82.1	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608G58

15-Nov-16

Client: Animas Environmental
Project: COPC Huerfano Unit 55

Sample ID	MB-27243	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBS	Batch ID	27243	RunNo	36893					
Prep Date	8/30/2016	Analysis Date	8/31/2016	SeqNo	1143738	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	850		1000		84.6	68.3	144			

Sample ID	LCS-27243	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSS	Batch ID	27243	RunNo	36893					
Prep Date	8/30/2016	Analysis Date	8/31/2016	SeqNo	1143739	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.3	80	120			
Surr: BFB	930		1000		93.0	68.3	144			

Sample ID	1608G58-001AMS	SampType	MS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	RSC-1@6'	Batch ID	27243	RunNo	36893					
Prep Date	8/30/2016	Analysis Date	8/31/2016	SeqNo	1143741	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	24.78	0	121	59.3	143			
Surr: BFB	960		991.1		96.5	68.3	144			

Sample ID	1608G58-001AMSD	SampType	MSD	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	RSC-1@6'	Batch ID	27243	RunNo	36893					
Prep Date	8/30/2016	Analysis Date	8/31/2016	SeqNo	1143742	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.51	0	97.5	59.3	143	22.3	20	R
Surr: BFB	920		980.4		94.3	68.3	144	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#: 1608G58

15-Nov-16

Client: Animas Environmental

Project: COPC Huerfano Unit 55

Sample ID	MB-27243		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 27243		RunNo: 36893					
Prep Date:	8/30/2016		Analysis Date: 8/31/2016		SeqNo: 1143786		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	1.0		1.000		101	80	120			

Sample ID	LCS-27243		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 27243		RunNo: 36893					
Prep Date:	8/30/2016		Analysis Date: 8/31/2016		SeqNo: 1143787		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	75.3	123			
Toluene	0.90	0.050	1.000	0	90.3	80	124			
Ethylbenzene	0.92	0.050	1.000	0	92.0	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	92.6	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

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
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: 1608G58

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

08/27/2016 11:25:00 AM

Completed By: Lindsay Mangin

8/30/2016 7:39:37 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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Client: Animas Environmental Services, LLC

Mailing Address: 604 W Pinon St.
Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com**QA/QC Package:**☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other _____☐ EDD (Type) _____

☒ Standard ☐ Rush

Project Name:

COPC Huerfano Unit 55

Project #:

Project Manager:

E. Skyles

Sampler: SG/CL

On Ice: ☒ Yes ☐ No

Sample Temperature: 7.8

Container
Type and #Preservative
Type

HEAL No.

1608658

8/26/16	11:16	SOIL	RSC-1 @ 6'	1 - 4oz jar	cool	- (u)
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8/26/16	11:24	SOIL	RSC-1 @ 8'	1 - 4oz jar	cool	- 007
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Date:	Time:	Relinquished by:
-------	-------	------------------

26-16	1548	Coni L
-------	------	--------

Received by:



Date	Time
------	------

7/16 1125

Remarks: Bill to Conoco Phillips

WO #1034461

Supervisor: Jack Birchfield

USERID: KGARCIA

Area: 6

Ordered by: Lisa Hunter



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX - 8021B
GRO/DRO - 8015

Air Bubbles (Y or N)