

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 Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607
Facility Name: San Juan 28-6 127N	Facility Type: Gas well

Surface Owner BLM	Mineral Owner FED	API No. 3003930774
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LOCATION OF RELEASE

Unit Letter J	Section 20	Township 28	Range 6	Feet from the 1532	North/South Line South	Feet from the 1797	East/West Line East	County Rio Arriba
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Latitude 36.64395 Longitude -107.48693

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered 620 c/yds
Source of Release BGT	Date and Hour of Occurrence N/A	Date and Hour of Discovery 12-12-2016
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
JUN 15 2017

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

Describe Cause of Problem and Remedial Action Taken.*
Historic contamination was encountered after soil sample was taken on 11-14-16 during a BGT Resample Project.

Describe Area Affected and Cleanup Action Taken.*
Delineation of the BGT area on 12-12-16 indicates a 20'x35'x 5' area that will be excavated to at or below action levels.

Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 71' x 84' x 2-4.5' in depth and 620 c/yds of soil was transported to IEI land farm. Analytical results were below the regulatory standards, except for one well (130ppm TPH). OCD approved COPC request to backfill. No further action required. The closure report and laboratory analysis are 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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: **Lisa Hunter**

Title: **Field Environmental Specialist**

E-mail Address: **Lisa.Hunter@cop.com**

Date: **06-14-17**

Phone: **505-258-1607**

Approved by Environmental Specialist:

Approval Date: **6/22/2017**

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

NVF1702340900

98

Fields, Vanessa, EMNRD

From: Hunter, Lisa <Lisa.Hunter@conocophillips.com>
Sent: Wednesday, April 26, 2017 9:16 AM
To: Fields, Vanessa, EMNRD; whitney thomas (l1thomas@blm.gov)
Subject: RE: Request to backfill - San Juan 28-6 Unit 127N

Thank you!

Lisa Hunter

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

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

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, April 26, 2017 7:51 AM
To: Hunter, Lisa <Lisa.Hunter@conocophillips.com>; whitney thomas (l1thomas@blm.gov) <l1thomas@blm.gov>
Subject: [EXTERNAL]RE: Request to backfill - San Juan 28-6 Unit 127N

Good morning Lisa,

The OCD grants your request to backfill the San Juan 28-6 #127N.

Thank you,

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

From: Hunter, Lisa [mailto:Lisa.Hunter@conocophillips.com]
Sent: Friday, April 21, 2017 2:37 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; whitney thomas (l1thomas@blm.gov) <l1thomas@blm.gov>

Subject: Request to backfill - San Juan 28-6 Unit 127N

Importance: High

<< File: Lab Result 4.11.17.pdf >> << File: Lab Results 3.29.17 SC-2.pdf >> << File: Lab Results 3.29.17 SC5 6 8 & 9.pdf >> << File: Figure 4 SJ 28-6 Unit 127N Excavation Map.pdf >> << File: Lab Results SC1 & 10 3.17.17.pdf >> << File: Lab Results SC2 to SC11 3.22.17.pdf >>

Attached please find the lab reports (5) for the **San Juan 28-6 Unit 127N**. Excavation completed at approximately 71ft x 84ft x 2-4.5ft deep. As the attached reports and the table below shows all the walls on the excavation cleared except one – SC-6 (East Wall, South half) with TPH 158 and BTEX 2.12 (Benzene .015). Risk Rank: 100ppm.

With the excavation terminating at hard sandstone, and a very low BTEX on all results, COPC believes the residual contaminants do not pose a present or foreseeable threat or an environmental risk to water, humans or animals, and therefore requests a variance and approval to backfill the excavation with clean soil.

Sample ID	Sample Location	Date	Benzene (mg/kg)	BTEX (mg/kg)	TPH -GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MR (mg/kg)	
			<i>NMOCD Action Level</i>			<i>10</i>	<i>50</i>	<i>100</i>
SC-1	East Wall Center	3/17/17	<0.014	<0.126	<2.8	<9.9	<4	
SC-2	South Wall	3/29/17	<0.015	<0.139	<3.1	<9.9	<4	
SC-3	North Wall	3/22/17	<0.015	<0.134	<3.0	<9.5	<4	
SC-4	West Wall Center	3/17/17	<0.015	<0.135	<3.0	11	<4	
SC-5	Center Base	4/11/17	<0.016	<0.147	<3.3	63	49	
SC-6	East Wall S1/2	4/11/17	0.015	2.12	130	28	<4	
SC-7	West Wall S1/2	3/22/17	<0.016	0.24	<3.2	<9.5	<4	
SC-8	South Base	3/29/17	<0.017	1.67	36	19	<5	
SC-9	Northeast Wall	4/11/17	<0.014	<0.123	<2.7	<9.5	<4	
SC-10	West Wall N1/2	3/22/17	<0.015	<0.132	7.0	12	<4	
SC-11	North Base	3/22/17	<0.030	0.79	49	41	<4	
SC-12	Northeast Base	4/11/17	<0.015	1.6	49	18	<4	
SC-13	Northeast Wall	4/11/17	<0.016	0.13	6.3	16	<4	

Please let me know if you have any questions.

Thanks,

Lisa Hunter

Field Environmental Specialist

ConocoPhillips Company

Lisa.Hunter@cop.com

Cell: 505.258.1607

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



June 7, 2017

Lisa Hunter and Robert Spearman
ConocoPhillips
San Juan Business Unit
(505) 326-9786 / (505) 320-3045

Via electronic mail to:

SJBUE-Team@ConocoPhillips.com

**RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report
San Juan 28-6 Unit 127N
Rio Arriba County, New Mexico**

Dear Ms. Hunter and Mr. Spearman:

On November 14 and December 12, 2016; and March 17 to April 11, 2017, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, a release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) San Juan 28-6 Unit 127N located in Rio Arriba County, New Mexico.

At the request of the New Mexico Oil Conservation Division (NMOCD), resampling of the location below the former BGT was required in order to meet all required closure criteria listed in New Mexico Administrative Code (NMAC) 19.15.17.13E. After the below grade tank sampling, an initial release assessment was completed on December 12, 2016, and the final excavation was completed by COPC contractors prior to AES' arrival on location on April 11, 2017.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-6 Unit 127N
Legal Description – NW¼ SE¼, Section 20, T28N, R6W, Rio Arriba
County, New Mexico
Well Latitude/Longitude – N36.64374 and W107.48761
BGT Latitude/Longitude – N36.64395 and W107.48693
Land Jurisdiction – Bureau of Land Management (BLM)

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

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

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, 2016 and 2017

1.2 NMOCD Ranking

Prior to site work, NMOCD and New Mexico Office of the State Engineer (NMOSE) databases were reviewed, and a cathodic protection report dated July 1980 for the San Juan 28-6 Unit 44A, found adjacent to the location, reported the depth to groundwater at greater than 100 feet below ground surface (bgs).

However, at the request of the NMOCD, the most stringent sample result criteria were applied to this BGT. Note these criteria normally apply to sites with a depth to groundwater of 0 to 50 feet.

1.3 Assessment

AES was initially contacted by Robert Spearman, COPC representative, on November 2, 2016, and on November 14, 2016, Corwin Lameman of AES traveled to the location. Soil sampling consisted of collection of one soil sample (BGT S-1) from the center of the former BGT footprint at a depth of 3.5 feet. Soil sample results were above the action levels, and a release was confirmed.

On December 12, 2016, AES personnel returned to the location to complete the release assessment field work. The assessment included collection and field sampling of 17 soil samples from 12 soil borings (SB-1 through SB-12). Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On March 17, 22 and 29, and April 11, 2017, AES returned to the location to collect confirmation soil samples of the excavation extents. The field sampling activities included collection of 15 confirmation soil samples (SC-1 through SC-13, T-1 and T-2) from the walls and base of the excavation and an assessment trench. The area of the final excavation measured approximately 71 feet by 84 feet by 2 to 4.5 feet in depth, and the assessment trench was approximately 69 feet by 3 feet by 3 feet in depth. Note that the depths of the excavation and trench were limited due to a confining sandstone unit around 2 to 4.5 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 17 soil samples (SB-1 through SB-12) and 15 composite samples (SC-1 through SC-13, T-1 and T-2) were collected during the assessment and excavation clearance. All samples were field screened for volatile organic compounds (VOCs),

and selected samples were analyzed for total petroleum hydrocarbons (TPH). All composite samples 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

Soil samples 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*.

2.2 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 sample chain of custody records. 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; and
- TPH as gasoline range, diesel range and motor oil range organics (GRO/DRO/MRO) per USEPA Method 8015.

In addition, soil samples BGT S-1, SB-3 and SB-5 were laboratory analyzed for:

- TPH per USEPA Method 418.1; and
- Chlorides per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field sampling results and laboratory analytical results are summarized in Tables 1 and 2, respectively, and on Figures 3 and 4. The AES Field Sampling Reports and laboratory analytical reports are attached.

Table 1. Soil Field VOCs and TPH Results
San Juan 28-6 Unit 127N Release Assessment and Final Excavation
December 2016 through April 2017

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (418.1) (mg/kg)</i>
		<i>NMOCD Action Level</i>	<i>--*</i>	<i>100*</i>
SB-1	12/12/16	3.5	0.0	<20.0
SB-2	12/12/16	1.5	437	39.9
		2.5	1,947	1,760
SB-3	12/12/16	1.25	219	20.7
SB-4	12/12/16	1.5	0.2	NA
SB-5	12/12/16	2.75	325	73.3
SB-6	12/12/16	1.5	1,148	182
		2.5	2,923	642
SB-7	12/12/16	2	1,201	NA
		3	2,505	1,450
SB-8	12/12/16	3	0.0	<20.0
SB-9	12/12/16	2	73.6	NA
		2.75	32.3	<20.0
SB-10	12/12/16	1.25	3,453	NA
		2.75	2,748	1,800
SB-11	12/12/16	3.5	1.2	<20.0
SB-12	12/12/16	3	0.9	<20.0
SC-1	3/17/17	0 to 3.25	113	<20.0
SC-2	3/29/17	0 to 4.5	0.8	<20.0
SC-3	3/22/17	0 to 2	6.8	<20.0
SC-4	3/17/17	0 to 3.25	9.2	<20.0
SC-5	3/29/17	3.25	2,337	44.9
SC-6	4/11/17	0 to 4.5	2,276	70.0
SC-7	3/22/17	0 to 4.5	19.1	<20.0
SC-8	3/29/17	4.5	1,953	47.4

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (418.1) (mg/kg)</i>
<i>NMOCD Action Level</i>			<i>--*</i>	<i>100*</i>
SC-9	4/11/17	0 to 2	7.7	<20.0
SC-10	3/22/17	0 to 2	185	<20.0
SC-11	3/22/17	2	2,851	80.1
SC-12	4/11/17	0 to 4	1,381	26.4
SC-13	4/11/17	2 to 4	2,510	21.3
T-1	3/29/17	0 to 3	2.1	<20.0
T-2	3/29/17	0 to 3	3,640	140

NA – not analyzed

*Action level determined by NMAC 19.15.17.13 Table 1.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides
San Juan 28-6 Unit 127N BGT Closure, Release Assessment and Final Excavation
November 2016 through April 2017

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH 418.1 (mg/kg)</i>	<i>TPH-GRO 8015 (mg/kg)</i>	<i>TPH-DRO 8015 (mg/kg)</i>	<i>TPH-MRO 8015 (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
<i>NMOCD Action Level</i>			<i>10*</i>	<i>50*</i>	<i>100*</i>		<i>100*</i>		<i>600*</i>
BGT S-1	11/14/16	3.5	<0.49	51	3,900	2,100	1,300	620	<30
SB-3	12/12/16	1.25	<0.024	0.52	25	7.1	28	<46	46
SB-5	12/12/16	2.75	<0.025	<0.222	78	<4.9	62	<49	<30
SC-1	3/17/17	0 to 3.25	<0.014	<0.126	NA	<2.8	<9.9	<49	NA
SC-2	3/29/17	0 to 4.5	<0.015	<0.139	NA	<3.1	<9.9	<49	NA
SC-3	3/22/17	0 to 2	<0.015	<0.134	NA	<3.0	<9.5	<48	NA
SC-4	3/17/17	0 to 3.25	<0.015	<0.135	NA	<3.0	11	<46	NA
SC-5	4/11/17	3.25	<0.016	<0.147	NA	<3.3	63	49	NA
SC-6	4/11/17	0 to 4.5	0.015	2.12	NA	130	28	<46	NA
SC-7	3/22/17	0 to 4.5	<0.016	0.24	NA	<3.2	<9.5	<47	NA
SC-8	3/29/17	4.5	<0.017	1.67	NA	36	19	<50	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	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	10*	50*	100*		100*		600*
SC-9	4/11/17	0 to 2	<0.014	<0.123	NA	<2.7	<9.5	<47	NA
SC-10	3/22/17	0 to 2	<0.015	<0.132	NA	7.0	12	<49	NA
SC-11	3/22/17	2	<0.030	0.79	NA	49	41	<48	NA
SC-12	4/11/17	0 to 4	<0.015	1.6	NA	49	18	<46	NA
SC-13	4/11/17	2 to 4	<0.016	0.13	NA	6.3	16	<49	NA

NA – not analyzed

*Action level determined by NMAC 19.15.17.13 Table 1.

3.0 Conclusions and Recommendations

3.1 BGT Closure

On November 14, 2016, AES conducted BGT closure sampling at the location. NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13 Table 1, and for this location the most stringent action levels were utilized per NMOCD. BGT closure sampling results were above the NMOCD action levels of 50 mg/kg for total BTEX and 100 mg/kg for TPH, with BGT S-1 reporting laboratory concentrations of 51 mg/kg total BTEX, 3,900 mg/kg TPH (418.1), and 4,020 mg/kg TPH (as GRO/DRO/MRO), respectively. Chloride concentrations in BGT S-1 were reported below the NMOCD action level of 600 mg/kg, with less than 30 mg/kg. Based on laboratory concentrations, a release was confirmed at the San Juan 28-6 Unit 127N.

3.2 Release Assessment

On December 12, 2016, AES completed a release assessment at the location. Release assessment field sampling results above the NMOCD action level of 100 mg/kg TPH were reported in SB-2, SB-6, SB-7 and SB-10. The highest field TPH concentration was reported in SB-10, with a concentration of 1,800 mg/kg TPH. Excavation of the release area was recommended.

3.3 Excavation Clearance

On April 11, 2017, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for all samples, except T-2. Laboratory analytical results reported benzene and total BTEX concentrations in all samples as

below NMOCD action levels. In contrast, TPH concentrations (as GRO/DRO/MRO) exceeded NMOCD action levels in two samples, SC-5 (center base) and SC-6 (southeast wall). Note that SC-5 had concentrations of GRO (<3.3 mg/kg) and DRO (63 mg/kg), while MRO, which is less mobile in the subsurface, was reported at 49 mg/kg. SC-6 was located in close proximity to the former separators.

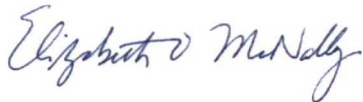
Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-6 Unit 127N, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final sidewalls and base of the excavation, except for TPH at SC-5 and SC-6. However, NMOCD granted approval to spray with a potassium permanganate solution and then backfill the excavation. No further work is recommended.

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 J. Reese
Environmental Scientist

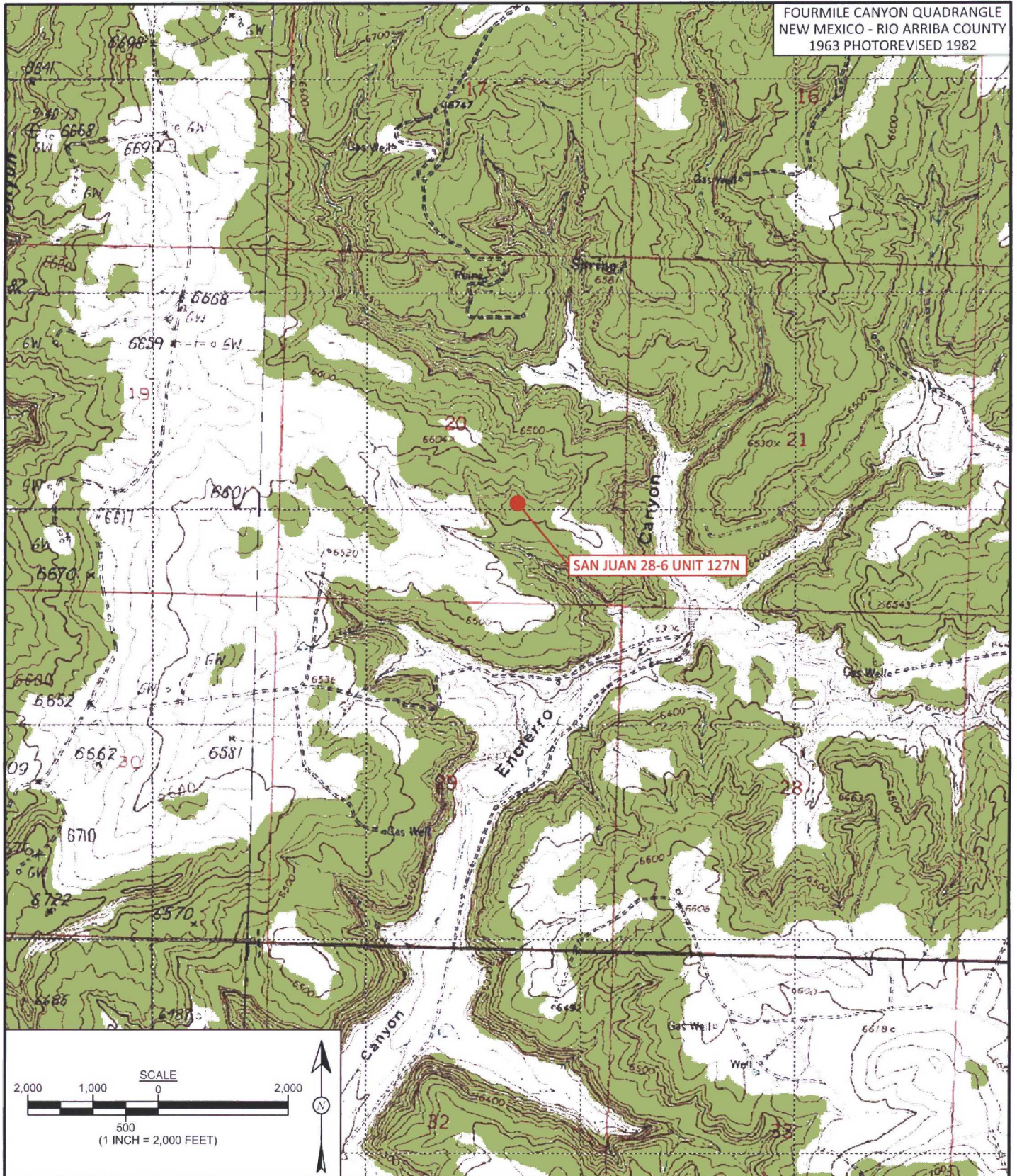


Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, November and December 2016
- Figure 3. BGT Closure and Release Assessment Sample Locations and Results, November and December 2016
- Figure 4. Final Excavation Sample Locations and Results, March and April 2017
- AES Field Sampling Reports 121216, 031717, 032217, 032917, 041117
- Hall Laboratory Analytical Reports 1611721, 1612945, 1703B58, 1703B61, 1703E72, 1703E90, 1704455

Figures



SAN JUAN 28-6 UNIT 127N

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 28-6 UNIT 127N
NW¼ SE¼, SECTION 20, T28N, R6W
RIO ARriba COUNTY, NEW MEXICO
N36.64374, W107.48761



animas
environmental
services

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:

C. Lameman

DATE DRAWN:

December 16, 2016

REVISIONS BY:

C. Lameman

DATE REVISED:

December 16, 2016

CHECKED BY:

D. Reese

DATE CHECKED:

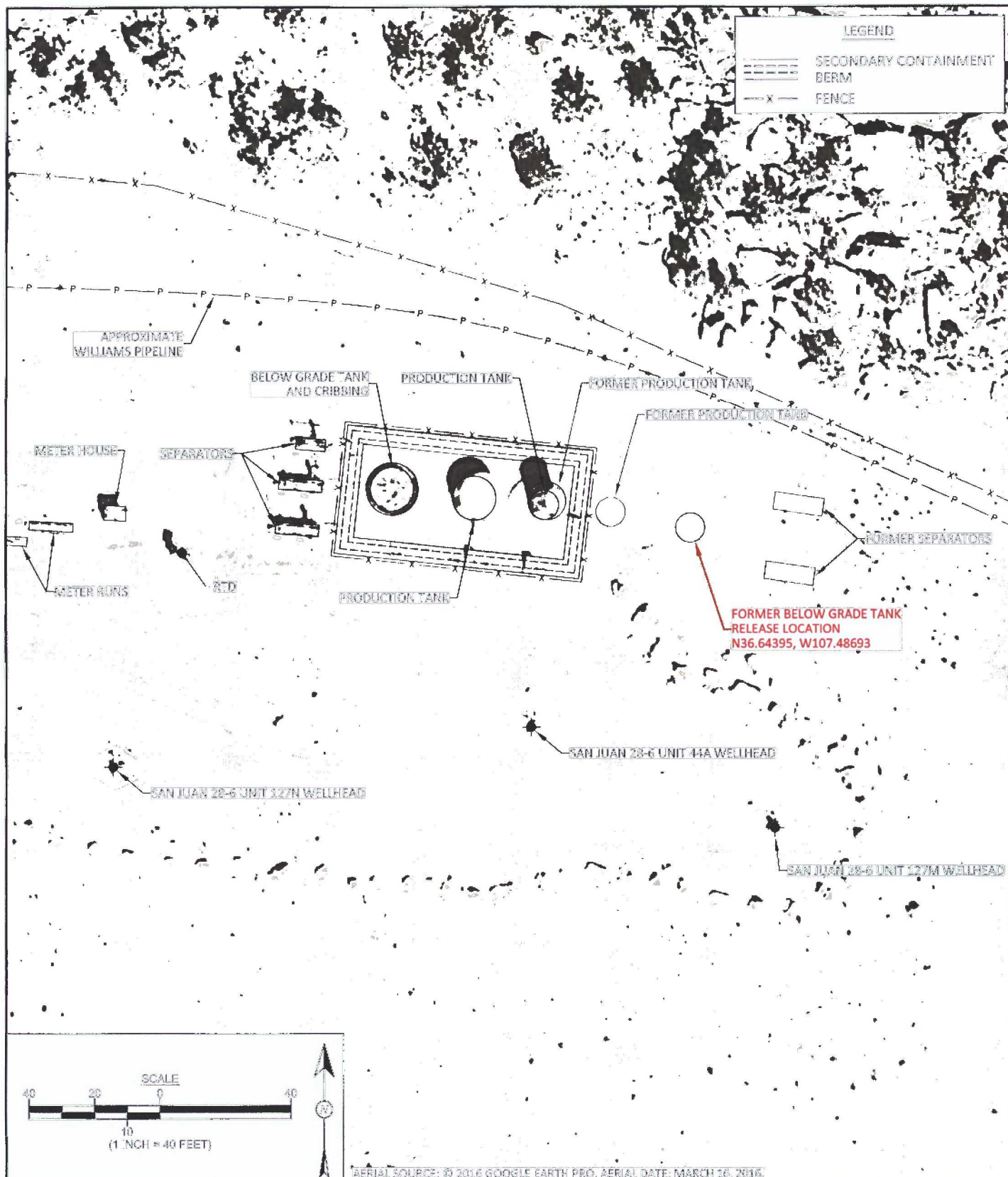
December 16, 2016

APPROVED BY:

E. McNally

DATE APPROVED:

December 16, 2016



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environmental
services**

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:

C. Lameman

DATE DRAWN:

December 16, 2016

REVISIONS BY:

C. Lameman

DATE REVISED:

June 1, 2017

CHECKED BY:

D. Reese

DATE CHECKED:

June 1, 2017

APPROVED BY:

E. McNelly

DATE APPROVED:

June 1, 2017

FIGURE 2

**AERIAL SITE MAP
2016 AND 2017**

ConocoPhillips

SAN JUAN 28-6 UNIT 127N

NW¼ SE¼, SECTION 26, T28N, R6W

RIO ARriba COUNTY, NEW MEXICO

N36.64374, W107.48761

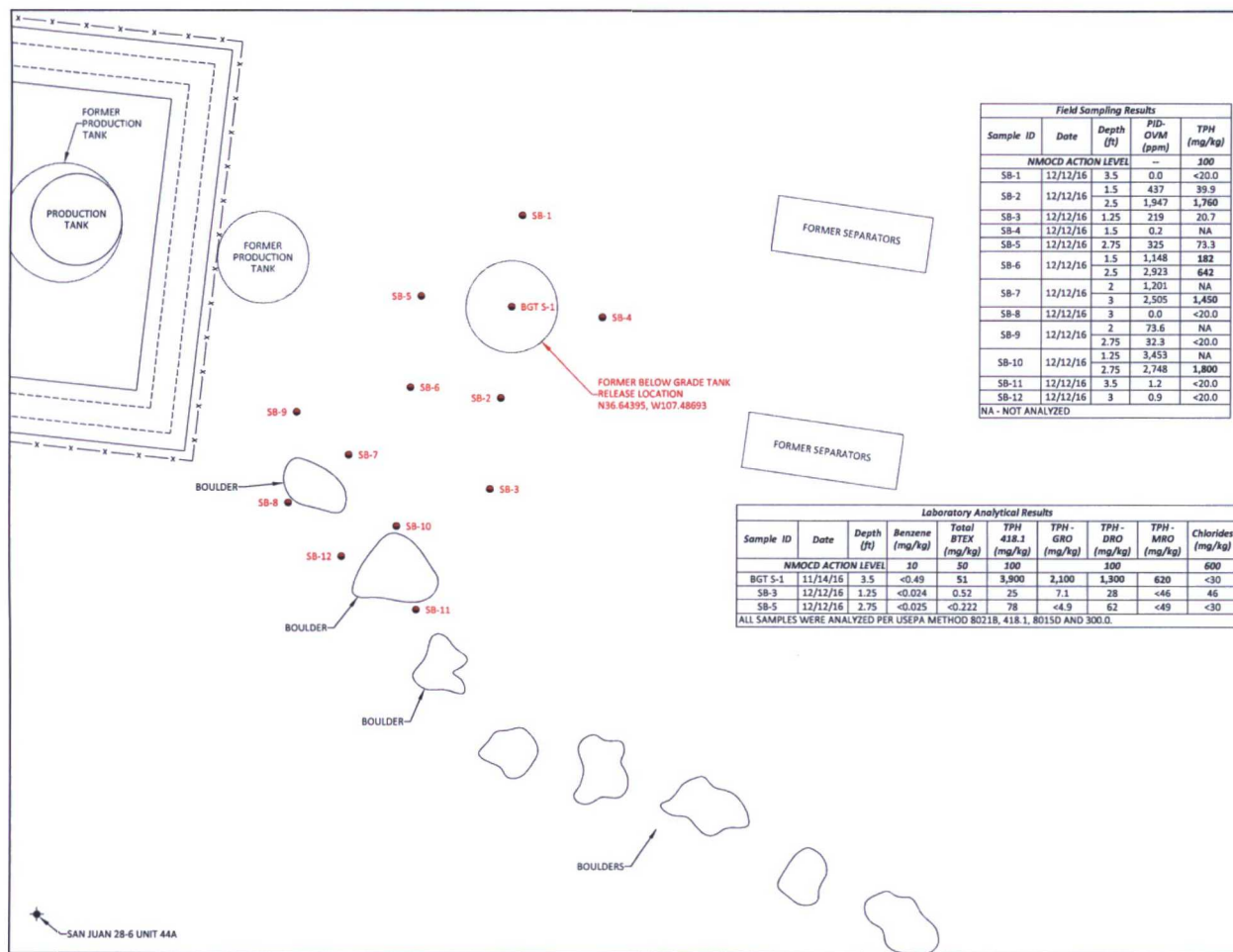


FIGURE 3

BGT CLOSURE AND RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS NOVEMBER AND DECEMBER 2016
 ConocoPhillips
 SAN JUAN 28-6 UNIT 127N
 NW¼, SE¼, SECTION 20, T28N, R6W
 RIO ARriba COUNTY, NEW MEXICO
 N36.64374, W107.48761



DRAWN BY: C. Lammeman
DATE DRAWN: December 16, 2016

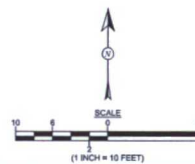
REVISIONS BY: D. Reese
DATE REVISION: April 20, 2017

CHECKED BY: S. Glasses
DATE CHECKED: April 20, 2017

APPROVED BY: E. McNally
DATE APPROVED: April 20, 2017

LEGEND

- SOIL BORING LOCATIONS
- SECONDARY CONTAINMENT BERM
- FENCE



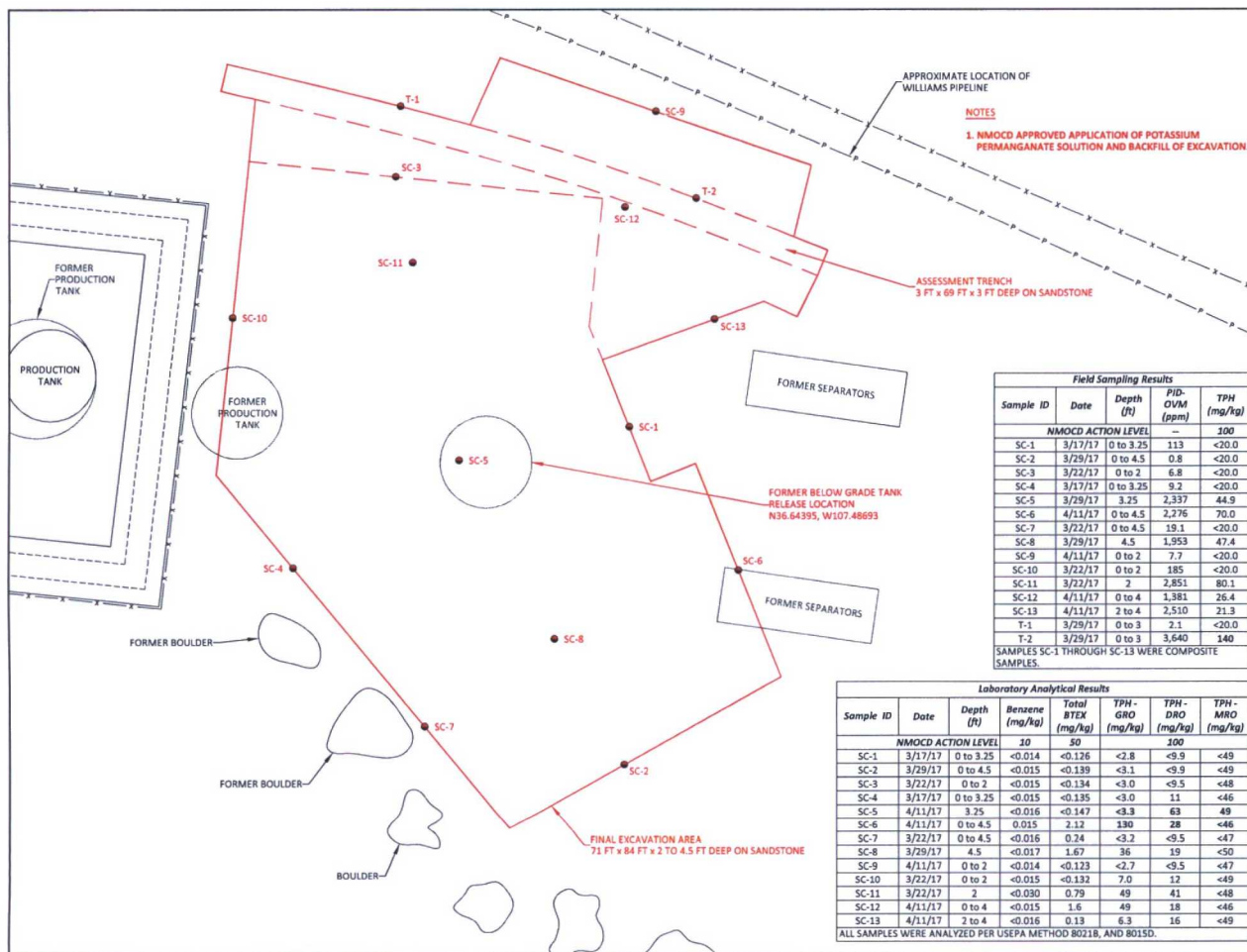


FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
MARCH AND APRIL 2017
ConocoPhillips
SAN JUAN 28-6 UNIT 127N
NW¼ 3E¼, SECTION 20, T28N, R6W
RIO ARriba COUNTY, NEW MEXICO
N36.64374, W107.48761



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

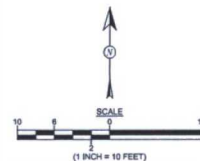
DRAWN BY: C. Lammeman
DATE DRAWN: March 22, 2017
REVISIONS BY: S. Glasses
DATE REVISED: April 20, 2017
CHECKED BY: D. Reese
DATE CHECKED: April 20, 2017
APPROVED BY: E. McNally
DATE APPROVED: April 20, 2017

Field Sampling Results					
Sample ID	Date	Depth (ft)	PID-OVM (ppm)	TPH (mg/kg)	
NMOC ACTION LEVEL			—	100	
SC-1	3/17/17	0 to 3.25	113	<20.0	
SC-2	3/29/17	0 to 4.5	0.8	<20.0	
SC-3	3/22/17	0 to 2	6.8	<20.0	
SC-4	3/17/17	0 to 3.25	9.2	<20.0	
SC-5	3/29/17	3.25	2,337	44.9	
SC-6	4/11/17	0 to 4.5	2,276	70.0	
SC-7	3/22/17	0 to 4.5	19.1	<20.0	
SC-8	3/29/17	4.5	1,953	47.4	
SC-9	4/11/17	0 to 2	7.7	<20.0	
SC-10	3/22/17	0 to 2	185	<20.0	
SC-11	3/22/17	2	2,851	80.1	
SC-12	4/11/17	0 to 4	1,381	26.4	
SC-13	4/11/17	2 to 4	2,510	21.3	
T-1	3/29/17	0 to 3	2.1	<20.0	
T-2	3/29/17	0 to 3	3,640	140	

SAMPLES SC-1 THROUGH SC-13 WERE COMPOSITE SAMPLES.

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)
NMOC ACTION LEVEL			10	50	100		
SC-1	3/17/17	0 to 3.25	<0.014	<0.136	<2.8	<5.9	<49
SC-2	3/29/17	0 to 4.5	<0.015	<0.139	<3.1	<5.9	<49
SC-3	3/22/17	0 to 2	<0.015	<0.134	<3.0	<5.5	<48
SC-4	3/17/17	0 to 3.25	<0.015	<0.135	<3.0	11	<46
SC-5	4/11/17	3.25	<0.016	<0.147	<3.3	63	49
SC-6	4/11/17	0 to 4.5	0.015	2.12	130	28	<46
SC-7	3/22/17	0 to 4.5	<0.016	0.24	<3.2	<5.5	<47
SC-8	3/29/17	4.5	<0.017	1.67	36	19	<50
SC-9	4/11/17	0 to 2	<0.014	<0.123	<2.7	<5.5	<47
SC-10	3/22/17	0 to 2	<0.015	<0.132	7.0	12	<49
SC-11	3/22/17	2	<0.030	0.79	49	41	<48
SC-12	4/11/17	0 to 4	<0.015	1.6	49	18	<46
SC-13	4/11/17	2 to 4	<0.016	0.13	6.3	16	<49

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



Field Notes

Field Screening Release Assessment Field Report

Date: 12-12-16

Client: Cinco Phillips AES Personnel: S. blases
 Well or Lease Name: San Juan 28-L Unit 127N C. Lameman
 CoP Onsite Supervisor: C. Lameman Beginning mileage: 5010
 Site Arrival Time: 1045 Ending Mileage: 53020
 Site Departure Time: 1415 Release Source: Historic BBT
 Well Head (GPS): 36.64374, -107.487101
 Land Jurisdiction: BLM Release Location (GPS): 36.64395, -107.48693
 County/State: Bio Arriba / NM
 Site Rank: 10

Billing Info:
 WO #: _____
 Supervisor: _____
 USER: _____
 Area: _____
 Activity Code: _____
 Ordered by: _____

Equipment in place: 2 Production Tanks, 1 BBT, 3 Separators
3 Meter Runs, 3 WH
 Photos taken: _____

Buck Machine #			
Concentration	50 mg/kg	100 mg/kg	500 mg/kg
Calibration ABS Values	0.076	0.134	0.639

Project Details: BBT Regulatory Sampling were above BBT Closure levels.
Release Assessment Required.

Site Sketch (DOES NOT REPLACE SITE MAP) and Current Excavation Dimensions:

Horizontal (Cross-Section View):

See Attached Field sketch

Vertical (Plan View):

Initial Recommendations:

Limitations: Sandstone Ranging 1.25 to 3.5 BBS

Well or Lease Name: San Juan 28-7 Unit 127N

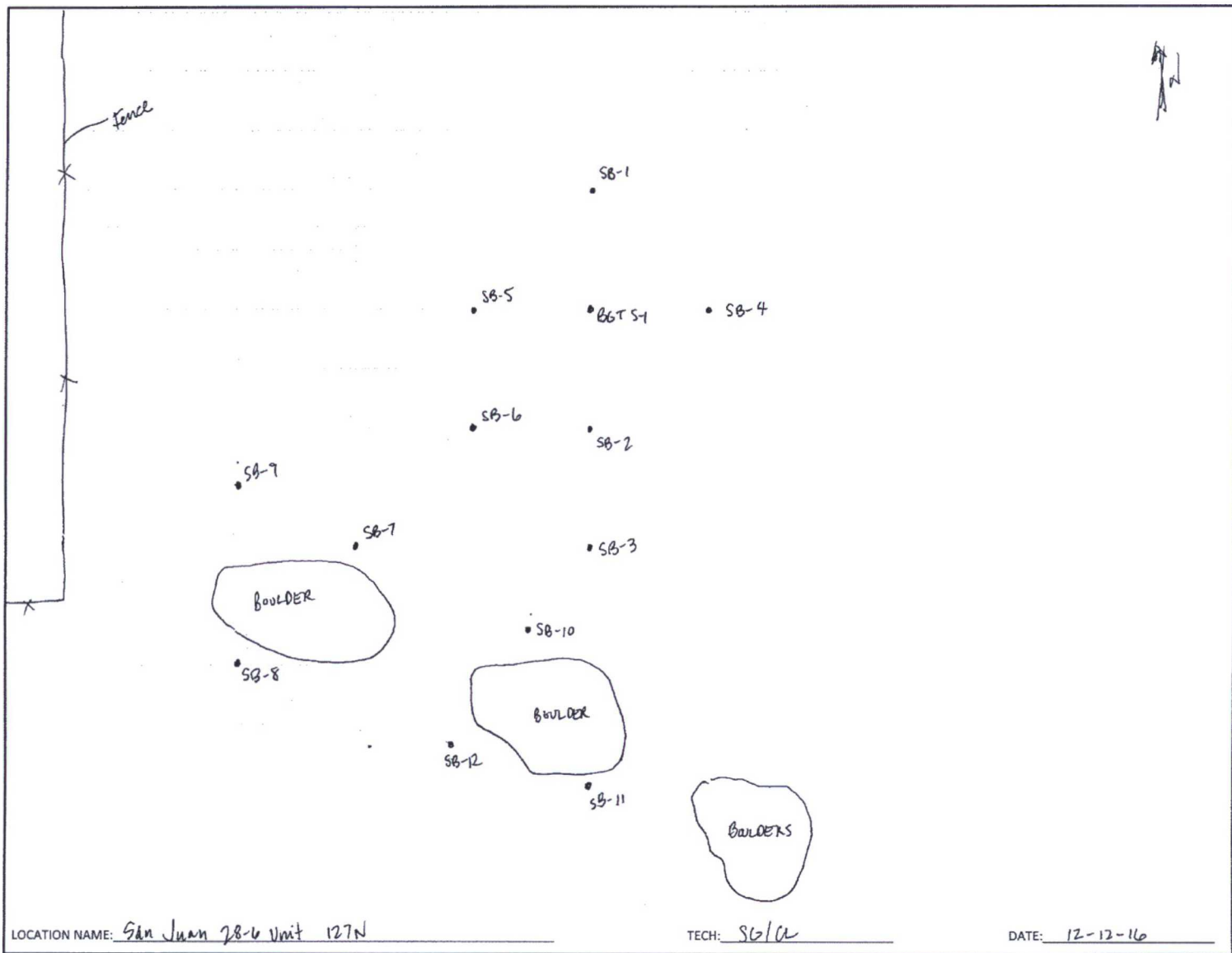
Date: 12-12-16

AES personnel: S. Glosses, C. Lammann

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	OVM Time	Field TPH (mg/kg)	Field TPH Analysis Time	ABS	NOTES
SB-1 @ 3.5'	12-12-16	1135	NB B6T S-1	0.0	1208	<20.0	1215	0.010	Sand & Gravel, Tan, Dry, No Odor & Staining
SB-2 @ 1.5'		1147	S of B6T S-1	937	1209	39.86	1226	0.036	Sand, CG, Sl. Gray, Sl. Odor
@ 2.5'		1155		1947	1210	1,757.13	1229	1.114	Sand, CG, Sl. Gray, V. Strong odor on SS
SB-3 @ 1.25'		1216	S of SB-2	219	1235	20.74	1238	0.024	Sand, CG, Tan, V. Sl. Odor on SS
SB-4 @ 1.5'		1236	E of B6T S-1	0.2	1254	-	-	-	Sand & Clay, Gray Purple, No Odor & Staining ^{Angel's Refrain: 5/10/17}
SB-5 @ 2.75'		1245	W of B6T S-1	325	1305	73.31	1303	0.057	Sand, Blk Rts, Sl. Odor, Sl. Gray, on SS
SB-6 @ 1.5'		1318	W of SB-2	1148	1332	181.64	1329	0.125	Sand & Clay, Gray Purple, Sl. Odor
@ 2.5'		1325		2923	1340	642.02	1332	0.414	Sand, Sl. Gray, V. Strong odor on SS
SB-7 @ 2'		1340	SW of SB-6	1201	1356	-	-	-	Sand & Clay, Gray Purple, Strong Odor
@ 3'		1347		2505	1407	1,451.27	1403	0.922	Sand, CG, Gray, V. Strong odor on SS
SB-8 @ 3'		1400	SW of SB-7	0.0	1417	<20.0	1413	0.008	Sand, CG, Tan, No Odor & Staining on SS
SB-9 @ 2'		1410	W of SB-6	73.6	1430	-	-	-	Sand & Clay, Blk Gray, Staining, V. Strong Odor
@ 2.75'		1420		32.3	1431	<20.0	1436	0.013	Sand, CG, Blk Gray, V. Strong odor on SS
SB-10 @ 1.25'		1430	E of SB-8	3453	1510	-	-	-	Clay & Sand, Brown, No Staining, V. Strong odor
@ 2.75'		1436		2748	1511	1,775.36	1516	1.138	Sand, CG, Gray Tan, V. Strong odor on SS
SB-11 @ 3.5'		1525		1.2	1539	<20.0	1542	0.020	Sand, CG, Tan, No odor & Staining on SS
SB-12 @ 3'		1534		0.9	1543	<20.0	1547	0.010	Sand, Gray Purple, No Odor & Staining on SS

*Include Benzene readings in the notes section initially and transfer to Limitations if Benzene is a problem on the location.

Animas Environmental Services, LLC
604 W Pinon St. Farmington, NM 87401 office # 505-564-2281
1911 N Main, Ste 280, Durango, CO 81301



LOCATION NAME: San Juan 28-6 Unit 127N

TECH: SGLA

DATE: 12-12-16

Field Screening Release Assessment Field Report

Date: 3-17-17

Client: ConocoPhillips AES Personnel: C. Lammeman
 Well or Lease Name: San Juan 28-6 Unit 127N
 CoP Onsite Supervisor: Kelly Ellis Beginning mileage: 94690
 Site Arrival Time: 936 Ending Mileage: 94982
 Site Departure Time: 1545 Release Source: Hydric BGT
 Well Head (GPS): 36.64374, -107.48761
 Land Jurisdiction: BLM Release Location (GPS): 36.64395, -107.48693
 County/State: Rio Arriba / NM
 Site Rank: 10 but under 100 TPH, 10 Benzene, 50 BTEX

Billing Info:
 WO #: 10398881
 Supervisor: Randy Santa
 USER: BLAKLBN
 Area: 7
 Activity Code:
 Ordered by: Lisa Hunter

Equipment in place: 2 production tanks, BGT, 3 Separators
3 WH, 3 Meter Runs
 Photos taken: Yes

Buck Machine #	3		
Concentration	50 mg/kg	100 mg/kg	500 mg/kg
Calibration ABS Values	0.136	0.259	1.211

Project Details: BGT Regulating Resample and Delamination completed.
 Excavation clearance and in progress. Found more
 contamination when excavating.

Initial Recommendations:

Limitations: Shallow Sandstone. Williams pipeline N of Excavation. Facility fence
 and communication lines.

Site Sketch (DOES NOT REPLACE SITE MAP) and Current Excavation Dimensions:

Horizontal (Cross-Section View):

Vertical (Plan View):

AES personnel: C. Lammeman

[illegible]

Animas Environmental Services, LLC
604 W Pinon St. Farmington, NM 87401 office # 505-564-2281
1911 N Main, Ste 206, Durango, CO 81301

Date: 3.22.17

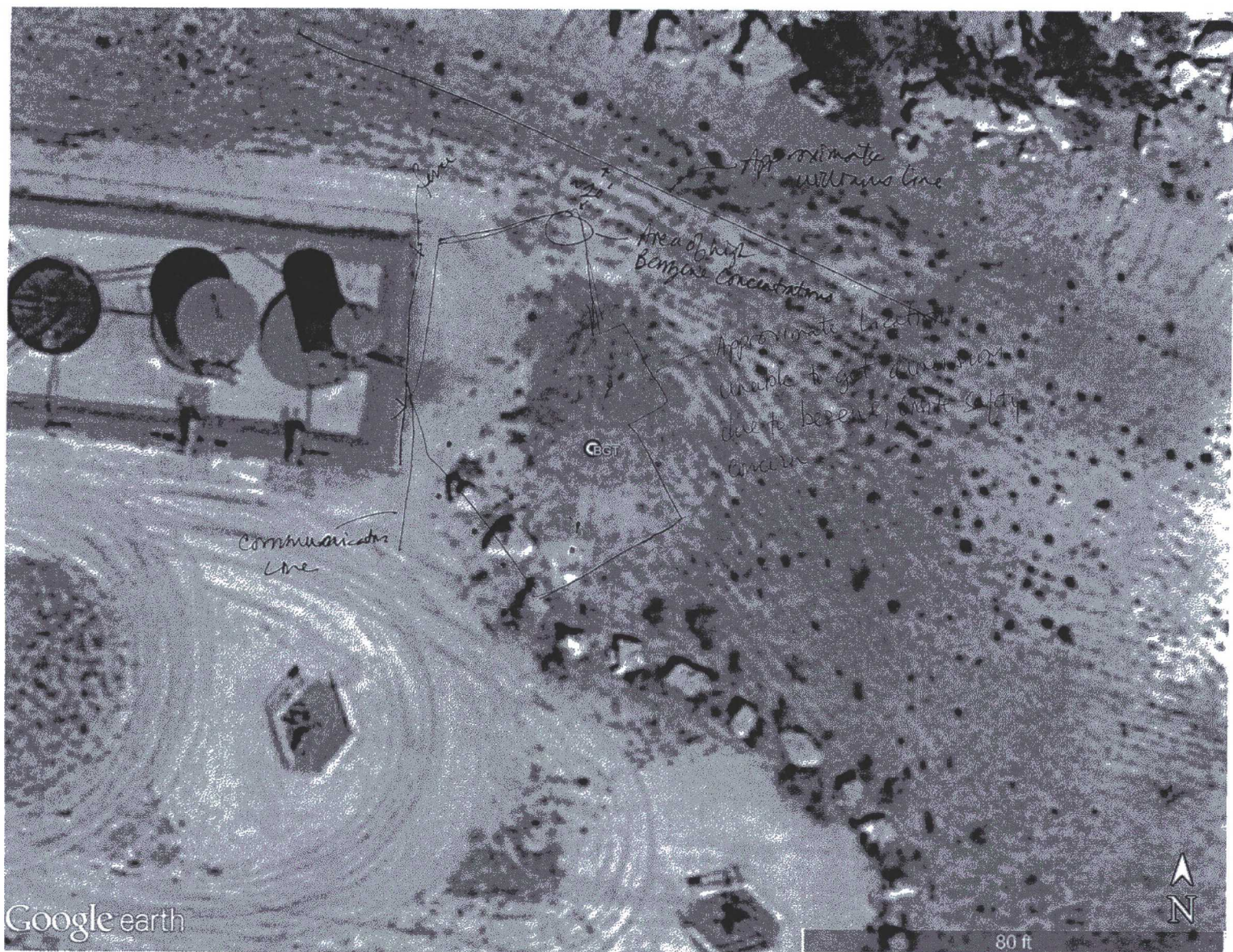
[illegible]

*Include Benzene readings in the notes section initially and transfer to Limitations if Benzene is a problem on the location.

Animas Environmental Services, LLC
604 W Pinon St. Farmington, NM 87401 office # 505-564-2281
1911 N Main, Ste 280, Durango, CO 81301

2 of 10

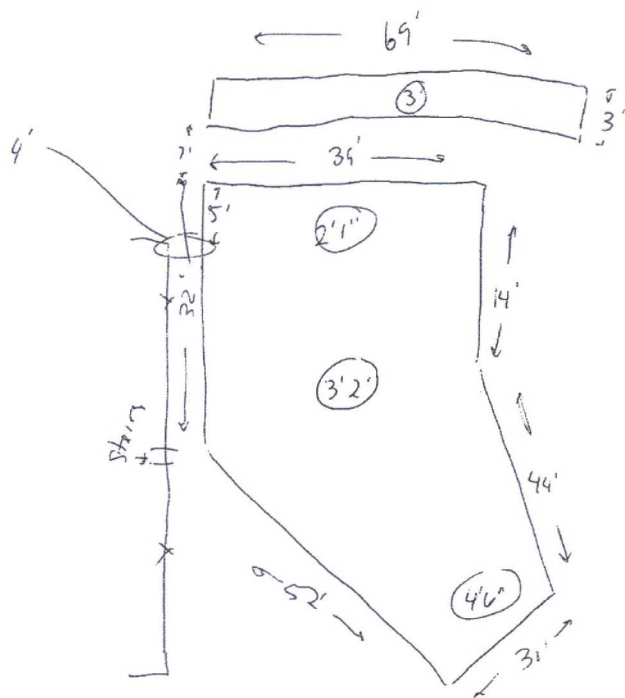
Release Assessment Field Form 060215.xlsx



AES personnel: C. Lammertsen / D. Johnson

Same Day
or
2 or 3 Days

*Include Benzene readings in the notes section initially and transfer to Limitations if Benzene is a problem on the location.



⊗ Wellhead

AES personnel: C. Lammeman

[illegible]

*Include Benzene readings in the notes section initially and transfer to Limitations if Benzene is a problem on the location.

Well or Lease Name:
Animas Environmental Services, LLC
Date:
604 W Pinon St. Farmington, NM 87401 office # 505-564-2281
1911 N Main, Ste 280, Durango, CO 81301

Analytical Reports



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

November 23, 2016

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

RE: COPC San Juan 28-6 Unit 127N

OrderNo.: 1611721

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/15/2016 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 qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611721

Date Reported: 11/23/2016

CLIENT: Animas Environmental

Client Sample ID: BGT S-1@3.5

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 11/14/2016 10:45:00 AM

Lab ID: 1611721-001

Matrix: SOIL

Received Date: 11/15/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	3900	190		mg/Kg	10	11/22/2016	28783
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	11/21/2016 11:51:59 PM	28786
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1300	92		mg/Kg	10	11/16/2016 12:15:33 PM	28686
Motor Oil Range Organics (MRO)	620	460		mg/Kg	10	11/16/2016 12:15:33 PM	28686
Surr: DNOP	0	70-130	S	%Rec	10	11/16/2016 12:15:33 PM	28686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	2100	99		mg/Kg	20	11/16/2016 11:54:43 AM	28653
Surr: BFB	412	68.3-144	S	%Rec	20	11/16/2016 11:54:43 AM	28653
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.49		mg/Kg	20	11/16/2016 11:54:43 AM	28653
Toluene	ND	0.99		mg/Kg	20	11/16/2016 11:54:43 AM	28653
Ethylbenzene	ND	0.99		mg/Kg	20	11/16/2016 11:54:43 AM	28653
Xylenes, Total	51	2.0		mg/Kg	20	11/16/2016 11:54:43 AM	28653
Surr: 4-Bromofluorobenzene	128	80-120	S	%Rec	20	11/16/2016 11:54:43 AM	28653

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#: 1611721

23-Nov-16

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	MB-28786		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 28786		RunNo: 38900					
Prep Date:	11/21/2016		Analysis Date: 11/21/2016		SeqNo: 1215934		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28786		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 28786		RunNo: 38900					
Prep Date:	11/21/2016		Analysis Date: 11/21/2016		SeqNo: 1215935		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	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#: 1611721

23-Nov-16

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	MB-28783		SampType: MBLK		TestCode: EPA Method 418.1: TPH					
Client ID:	PBS		Batch ID: 28783		RunNo: 38917					
Prep Date:	11/21/2016		Analysis Date: 11/22/2016		SeqNo: 1216381		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-28783		SampType: LCS		TestCode: EPA Method 418.1: TPH					
Client ID:	LCSS		Batch ID: 28783		RunNo: 38917					
Prep Date:	11/21/2016		Analysis Date: 11/22/2016		SeqNo: 1216382		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	111	80.7	121			

Sample ID	LCSD-28783	SampType: LCSD			TestCode: EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID: 28783			RunNo: 38917					
Prep Date:	11/21/2016	Analysis Date: 11/22/2016			SeqNo: 1216383		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	113	80.7	121	1.19	20	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611721

23-Nov-16

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	MB-28682		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 28682		RunNo: 38735					
Prep Date:	11/15/2016		Analysis Date: 11/16/2016		SeqNo: 1210301		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.0		10.00		80.2	70	130			

Sample ID	LCS-28682		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 28682		RunNo: 38735					
Prep Date:	11/15/2016		Analysis Date: 11/16/2016		SeqNo: 1210302		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.4	70	130			

Sample ID	MB-28686	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	28686		RunNo:	38735				
Prep Date:	11/15/2016	Analysis Date:	11/16/2016		SeqNo:	1210466	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	7.8		10.00		77.9	70	130			

Sample ID	LCS-28686		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 28686		RunNo: 38735					
Prep Date:	11/15/2016		Analysis Date: 11/16/2016		SeqNo: 1210467		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.9	62.6	124			
Surr: DNOP	4.1		5.000		81.4	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#: 1611721

23-Nov-16

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	MB-28653		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 28653		RunNo: 38746					
Prep Date:	11/14/2016		Analysis Date: 11/16/2016		SeqNo: 1210935		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	830		1000		83.2	68.3	144			

Sample ID	LCS-28653		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 28653		RunNo: 38746					
Prep Date:	11/14/2016		Analysis Date: 11/16/2016		SeqNo: 1210936		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.0	74.6	123			
Surr: BFB	880		1000		88.2	68.3	144			

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#: 1611721

23-Nov-16

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	MB-28653		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	28653		RunNo:	38746			
Prep Date:	11/14/2016		Analysis Date:	11/16/2016		SeqNo:	1210951	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		97.7	80	120			

Sample ID	LCS-28653		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	28653		RunNo:	38746			
Prep Date:	11/14/2016		Analysis Date:	11/16/2016		SeqNo:	1210952	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	75.2	115			
Toluene	0.97	0.050	1.000	0	96.6	80.7	112			
Ethylbenzene	0.93	0.050	1.000	0	93.5	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	93.3	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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: 1611721

RcptNo: 1

Received by/date: AT 11/15/16

Logged By: Lindsay Mangin 11/15/2016 7:50:00 AM

Completed By: Lindsay Mangin 11/15/2016 8:50:20 AM

Reviewed By: AT 11/15/16

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	1.0	Good	Yes			



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

December 29, 2016

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

RE: CoP San Juan 28-6 Unit 127N

OrderNo.: 1612945

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/17/2016 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 qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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 1612945

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SB-3

Project: CoP San Juan 28-6 Unit 127N

Collection Date: 12/12/2016 12:16:00 PM

Lab ID: 1612945-001

Matrix: SOIL

Received Date: 12/17/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	25	19		mg/Kg	1	12/23/2016	29326
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	46	30		mg/Kg	20	12/28/2016 1:24:16 AM	29418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	28	9.1		mg/Kg	1	12/23/2016 12:32:41 AM	29308
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/23/2016 12:32:41 AM	29308
Surr: DNOP	93.2	70-130		%Rec	1	12/23/2016 12:32:41 AM	29308
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	7.1	4.8		mg/Kg	1	12/22/2016 3:58:50 AM	29302
Surr: BFB	112	68.3-144		%Rec	1	12/22/2016 3:58:50 AM	29302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/22/2016 3:58:50 AM	29302
Toluene	ND	0.048		mg/Kg	1	12/22/2016 3:58:50 AM	29302
Ethylbenzene	ND	0.048		mg/Kg	1	12/22/2016 3:58:50 AM	29302
Xylenes, Total	0.52	0.096		mg/Kg	1	12/22/2016 3:58:50 AM	29302
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	12/22/2016 3:58:50 AM	29302

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 1612945

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SB-5

Project: CoP San Juan 28-6 Unit 127N

Collection Date: 12/12/2016 12:45:00 PM

Lab ID: 1612945-002

Matrix: SOIL

Received Date: 12/17/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	78	19		mg/Kg	1	12/23/2016	29326
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	12/28/2016 1:36:40 AM	29418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	62	9.8		mg/Kg	1	12/23/2016 12:55:58 AM	29308
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/23/2016 12:55:58 AM	29308
Surr: DNOP	90.8	70-130		%Rec	1	12/23/2016 12:55:58 AM	29308
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/22/2016 4:23:03 AM	29302
Surr: BFB	108	68.3-144		%Rec	1	12/22/2016 4:23:03 AM	29302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/22/2016 4:23:03 AM	29302
Toluene	ND	0.049		mg/Kg	1	12/22/2016 4:23:03 AM	29302
Ethylbenzene	ND	0.049		mg/Kg	1	12/22/2016 4:23:03 AM	29302
Xylenes, Total	ND	0.099		mg/Kg	1	12/22/2016 4:23:03 AM	29302
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	12/22/2016 4:23:03 AM	29302

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#: 1612945

29-Dec-16

Client: Animas Environmental
Project: CoP San Juan 28-6 Unit 127N

Sample ID	MB-29418	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	29418	RunNo:	39674					
Prep Date:	12/27/2016	Analysis Date:	12/27/2016	SeqNo:	1243082	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29418	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	29418	RunNo:	39674					
Prep Date:	12/27/2016	Analysis Date:	12/27/2016	SeqNo:	1243083	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	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#: 1612945

29-Dec-16

Client: Animas Environmental
Project: CoP San Juan 28-6 Unit 127N

Sample ID	MB-29326	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	29326	RunNo:	39621					
Prep Date:	12/21/2016	Analysis Date:	12/23/2016	SeqNo:	1241002	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-29326	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	29326	RunNo:	39621					
Prep Date:	12/21/2016	Analysis Date:	12/23/2016	SeqNo:	1241003	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	94	20	100.0	0	94.1	80.7	121			

Sample ID	LCSD-29326	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	29326	RunNo:	39621					
Prep Date:	12/21/2016	Analysis Date:	12/23/2016	SeqNo:	1241004	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	95	20	100.0	0	95.4	80.7	121	1.37	20	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612945

29-Dec-16

Client: Animas Environmental
Project: CoP San Juan 28-6 Unit 127N

Sample ID	LCS-29308		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29308		RunNo: 39590					
Prep Date:	12/20/2016		Analysis Date: 12/22/2016		SeqNo: 1240933		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	63.8	116			
Surr: DNOP	4.4		5.000		88.5	70	130			

Sample ID	MB-29308	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 29308			RunNo: 39590					
Prep Date:	12/20/2016	Analysis Date: 12/22/2016			SeqNo: 1240934		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	9.2		10.00		92.4	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#: 1612945

29-Dec-16

Client: Animas Environmental
Project: CoP San Juan 28-6 Unit 127N

Sample ID	MB-29302		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 29302		RunNo: 39562					
Prep Date:	12/20/2016		Analysis Date: 12/21/2016		SeqNo: 1239335		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	890		1000		89.0	68.3	144			

Sample ID	LCS-29302		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 29302		RunNo: 39562					
Prep Date:	12/20/2016		Analysis Date: 12/21/2016		SeqNo: 1239336		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	119	74.6	123			
Surr: BFB	930		1000		92.6	68.3	144			

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#: 1612945

29-Dec-16

Client: Animas Environmental
Project: CoP San Juan 28-6 Unit 127N

Sample ID	MB-29302	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	29302	RunNo:	39562					
Prep Date:	12/20/2016	Analysis Date:	12/21/2016	SeqNo:	1239374	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	0.96		1.000		95.9	80	120			

Sample ID	LCS-29302	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	29302	RunNo:	39562					
Prep Date:	12/20/2016	Analysis Date:	12/21/2016	SeqNo:	1239375	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	107	75.2	115			
Toluene	1.0	0.050	1.000	0	100	80.7	112			
Ethylbenzene	0.96	0.050	1.000	0	96.2	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	93.3	79.2	115			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.6	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: 1612945

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

12/17/2016 7:45:00 AM

Completed By: Lindsay Mangin

12/17/2016 8:39:06 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	2.1	Good	Yes			

nt: Animas Environmental Services, LLC

☒ **Standard** ☐ **Rush**

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

Project Name: COPC SAN JUAN 28-6 UNIT 127N

Phone #: 505-564-2281

Project #:

ail or Fax#: clameman@animasenvironmental.com

Project Manager:
C. Lameman/ E. McNally

QC Package:

☐ Level 4 (Full Validation)

:reditation:

Sampler: CL/SG /


☒ **RELAP** ☐ **Other** _____

On Ice: ☒ Yes ☐ No

DD (Type) _____

Sample Temperature: 71

[illegible]

1:	Time:	Relinquished by:
2/10	1956	

Received by:	Date	Time
M. H. Lee	12/16/16	1450

Remarks: Bill to Conoco Phillips
WO # 21773118
Supervisor: Erin Wyckoff
USERID: KAITLW
Area: 7
Ordered by: Bobby Spearman

Call with any
questions.

Time:	Relinquished by:
1/16/14 1804	Mustafa Waleed

Received by:	Date	Time
	12/17/16	0745



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

March 24, 2017

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

RE: COPC San Juan 28-6 Unit 127N

OrderNo.: 1703B58

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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 1703B58

Date Reported: 3/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/17/2017 10:00:00 AM

Lab ID: 1703B58-001

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 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	3/23/2017 9:52:19 AM	30857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/23/2017 9:52:19 AM	30857
Surr: DNOP	110	70-130		%Rec	1	3/23/2017 9:52:19 AM	30857
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	3/23/2017 10:59:26 AM	G41606
Surr: BFB	93.1	54-150		%Rec	1	3/23/2017 10:59:26 AM	G41606
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.014		mg/Kg	1	3/23/2017 10:59:26 AM	R41606
Toluene	ND	0.028		mg/Kg	1	3/23/2017 10:59:26 AM	R41606
Ethylbenzene	ND	0.028		mg/Kg	1	3/23/2017 10:59:26 AM	R41606
Xylenes, Total	ND	0.056		mg/Kg	1	3/23/2017 10:59:26 AM	R41606
Surr: 4-Bromofluorobenzene	104	66.6-132		%Rec	1	3/23/2017 10:59:26 AM	R41606

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 1703B58

Date Reported: 3/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-10

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/22/2017 9:22:00 AM

Lab ID: 1703B58-002

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	3/23/2017 10:14:30 AM	30857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/23/2017 10:14:30 AM	30857
Surr: DNOP	113	70-130		%Rec	1	3/23/2017 10:14:30 AM	30857
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	7.0	2.9		mg/Kg	1	3/23/2017 11:22:03 AM	G41606
Surr: BFB	146	54-150		%Rec	1	3/23/2017 11:22:03 AM	G41606
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	3/23/2017 11:22:03 AM	R41606
Toluene	ND	0.029		mg/Kg	1	3/23/2017 11:22:03 AM	R41606
Ethylbenzene	ND	0.029		mg/Kg	1	3/23/2017 11:22:03 AM	R41606
Xylenes, Total	0.12	0.059		mg/Kg	1	3/23/2017 11:22:03 AM	R41606
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	3/23/2017 11:22:03 AM	R41606

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#: 1703B58

24-Mar-17

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	MB-30857		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 30857		RunNo: 41593					
Prep Date:	3/23/2017		Analysis Date: 3/23/2017		SeqNo: 1304737		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	70	130			

Sample ID	LCS-30857		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 30857		RunNo: 41593					
Prep Date:	3/23/2017		Analysis Date: 3/23/2017		SeqNo: 1304744		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	63.8	116			
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID	LCS-30846		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 30846		RunNo: 41593					
Prep Date:	3/22/2017		Analysis Date: 3/23/2017		SeqNo: 1305627		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		103	70	130			

Sample ID	MB-30846		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 30846		RunNo: 41593					
Prep Date:	3/22/2017		Analysis Date: 3/23/2017		SeqNo: 1305628		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		105	70	130			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B58

24-Mar-17

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305565	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	910		1000		91.2	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305566	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	76.4	125			
Surr: BFB	1000		1000		99.6	54	150			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B58

24-Mar-17

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305574	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	1.1		1.000		112	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305575	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132			

Qualifiers:

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



Hall Environmental Analysis Laboratory
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: 1703B58

RcptNo: 1

Received by/date: [Signature] 03/23/17

Logged By: Lindsay Mangin 3/23/2017 7:20:00 AM

Completed By: Lindsay Mangin 3/23/2017 8:27:05 AM

Reviewed By: [Signature] 03/23/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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	1.7	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: Animas Environmental Services, LLC		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>Same Day</u>
Mailing Address: 604 W Pinon St.		Project Name: COPC SAN JUAN 28-6 UNIT 127N
Farmington, NM 87401		Project #:
Phone #: 505-564-2281		Project Manager:
Email or Fax#: clameman@animasenvironmental.com		C. Lameman/ E. McNally
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Sampler: CL
Accreditation: <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> EDD (Type) _____		Sample Temperature: 1.7

☐ Standard ☒ Rush ☐ Same Day

COPC SAN JUAN 28-6 UNIT 127N

Project Manager:

C. Lameman/ E. McNally

On Ice: ☒ Yes ☐ No

Sample Temperature: 17

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks: Bill to Conoco Phillips WO # 10398881 Supervisor: Randy Smith USERID: BLAKLBN Area: 7 Ordered by: Lisa Hunter
3/22/17	11:30	Carla	Must Wait	3/22/17	16:30	
Date:	Time:	Relinquished by:	Received by:	Date	Time	
3/22/17	18:24	Must Wait	[Signature]	3/22/17	07:20	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This as notice of this possibility. Any sub-contracted will be 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

March 27, 2017

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

RE: COPC San Juan 28-6 Unit 127N

OrderNo.: 1703B61

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1703B61

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/22/2017 8:40:00 AM

Lab ID: 1703B61-001

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	18	9.5		mg/Kg	1	3/24/2017 1:03:08 PM	30871
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/24/2017 1:03:08 PM	30871
Surr: DNOP	90.0	70-130		%Rec	1	3/24/2017 1:03:08 PM	30871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	3.7	3.2		mg/Kg	1	3/23/2017 7:57:09 PM	30837
Surr: BFB	117	54-150		%Rec	1	3/23/2017 7:57:09 PM	30837
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	3/23/2017 7:57:09 PM	30837
Toluene	ND	0.032		mg/Kg	1	3/23/2017 7:57:09 PM	30837
Ethylbenzene	ND	0.032		mg/Kg	1	3/23/2017 7:57:09 PM	30837
Xylenes, Total	0.44	0.063		mg/Kg	1	3/23/2017 7:57:09 PM	30837
Surr: 4-Bromofluorobenzene	104	66.6-132		%Rec	1	3/23/2017 7:57:09 PM	30837

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 1703B61

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/22/2017 10:57:00 AM

Lab ID: 1703B61-002

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/24/2017 4:16:42 PM	30871
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/24/2017 4:16:42 PM	30871
Surr: DNOP	88.5	70-130		%Rec	1	3/24/2017 4:16:42 PM	30871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	3/23/2017 8:23:28 PM	30837
Surr: BFB	93.0	54-150		%Rec	1	3/23/2017 8:23:28 PM	30837
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	3/23/2017 8:23:28 PM	30837
Toluene	ND	0.030		mg/Kg	1	3/23/2017 8:23:28 PM	30837
Ethylbenzene	ND	0.030		mg/Kg	1	3/23/2017 8:23:28 PM	30837
Xylenes, Total	ND	0.059		mg/Kg	1	3/23/2017 8:23:28 PM	30837
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	3/23/2017 8:23:28 PM	30837

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 1703B61

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/17/2017 11:20:00 AM

Lab ID: 1703B61-003

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	11	9.2		mg/Kg	1	3/24/2017 4:44:48 PM	30871
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/24/2017 4:44:48 PM	30871
Surr: DNOP	91.1	70-130		%Rec	1	3/24/2017 4:44:48 PM	30871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	3/23/2017 8:49:41 PM	30837
Surr: BFB	97.1	54-150		%Rec	1	3/23/2017 8:49:41 PM	30837
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	3/23/2017 8:49:41 PM	30837
Toluene	ND	0.030		mg/Kg	1	3/23/2017 8:49:41 PM	30837
Ethylbenzene	ND	0.030		mg/Kg	1	3/23/2017 8:49:41 PM	30837
Xylenes, Total	ND	0.060		mg/Kg	1	3/23/2017 8:49:41 PM	30837
Surr: 4-Bromofluorobenzene	104	66.6-132		%Rec	1	3/23/2017 8:49:41 PM	30837

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 1703B61

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/17/2017 11:25:00 AM

Lab ID: 1703B61-004

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	260	10		mg/Kg	1	3/24/2017 5:12:47 PM	30871
Motor Oil Range Organics (MRO)	61	50		mg/Kg	1	3/24/2017 5:12:47 PM	30871
Surr: DNOP	86.4	70-130		%Rec	1	3/24/2017 5:12:47 PM	30871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	440	33		mg/Kg	10	3/23/2017 9:15:56 PM	30837
Surr: BFB	529	54-150	S	%Rec	10	3/23/2017 9:15:56 PM	30837
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.17		mg/Kg	10	3/23/2017 9:15:56 PM	30837
Toluene	ND	0.33		mg/Kg	10	3/23/2017 9:15:56 PM	30837
Ethylbenzene	ND	0.33		mg/Kg	10	3/23/2017 9:15:56 PM	30837
Xylenes, Total	14	0.66		mg/Kg	10	3/23/2017 9:15:56 PM	30837
Surr: 4-Bromofluorobenzene	119	66.6-132		%Rec	10	3/23/2017 9:15:56 PM	30837

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 1703B61

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-7

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/22/2017 8:59:00 AM

Lab ID: 1703B61-005

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/24/2017 5:41:21 PM	30871
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/24/2017 5:41:21 PM	30871
Surr: DNOP	88.6	70-130		%Rec	1	3/24/2017 5:41:21 PM	30871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	3/23/2017 4:03:10 PM	G41606
Surr: BFB	94.7	54-150		%Rec	1	3/23/2017 4:03:10 PM	G41606
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	3/23/2017 4:03:10 PM	R41606
Toluene	ND	0.032		mg/Kg	1	3/23/2017 4:03:10 PM	R41606
Ethylbenzene	ND	0.032		mg/Kg	1	3/23/2017 4:03:10 PM	R41606
Xylenes, Total	0.24	0.064		mg/Kg	1	3/23/2017 4:03:10 PM	R41606
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	1	3/23/2017 4:03:10 PM	R41606

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 1703B61

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-8

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/22/2017 9:15:00 AM

Lab ID: 1703B61-006

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	92	9.5		mg/Kg	1	3/24/2017 6:09:21 PM	30871
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/24/2017 6:09:21 PM	30871
Surr: DNOP	113	70-130		%Rec	1	3/24/2017 6:09:21 PM	30871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	390	16		mg/Kg	5	3/23/2017 4:26:31 PM	G41606
Surr: BFB	582	54-150	S	%Rec	5	3/23/2017 4:26:31 PM	G41606
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.079		mg/Kg	5	3/23/2017 4:26:31 PM	R41606
Toluene	0.63	0.16		mg/Kg	5	3/23/2017 4:26:31 PM	R41606
Ethylbenzene	1.1	0.16		mg/Kg	5	3/23/2017 4:26:31 PM	R41606
Xylenes, Total	14	0.32		mg/Kg	5	3/23/2017 4:26:31 PM	R41606
Surr: 4-Bromofluorobenzene	145	66.6-132	S	%Rec	5	3/23/2017 4:26:31 PM	R41606

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 1703B61

Date Reported: 3/27/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-11

Project: COPC San Juan 28-6 Unit 127N

Collection Date: 3/22/2017 9:40:00 AM

Lab ID: 1703B61-007

Matrix: MEOH (SOIL)

Received Date: 3/23/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	41	9.5		mg/Kg	1	3/24/2017 6:37:26 PM	30871
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/24/2017 6:37:26 PM	30871
Surr: DNOP	77.1	70-130		%Rec	1	3/24/2017 6:37:26 PM	30871
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	49	6.0		mg/Kg	2	3/23/2017 4:49:50 PM	G41606
Surr: BFB	241	54-150	S	%Rec	2	3/23/2017 4:49:50 PM	G41606
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg	2	3/23/2017 4:49:50 PM	R41606
Toluene	ND	0.060		mg/Kg	2	3/23/2017 4:49:50 PM	R41606
Ethylbenzene	ND	0.060		mg/Kg	2	3/23/2017 4:49:50 PM	R41606
Xylenes, Total	0.79	0.12		mg/Kg	2	3/23/2017 4:49:50 PM	R41606
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	2	3/23/2017 4:49:50 PM	R41606

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#: 1703B61

27-Mar-17

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	MB-30871	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	30871	RunNo:	41626					
Prep Date:	3/23/2017	Analysis Date:	3/24/2017	SeqNo:	1306244	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	8.1		10.00		81.3	70	130			

Sample ID	LCS-30871	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30871	RunNo:	41626					
Prep Date:	3/23/2017	Analysis Date:	3/24/2017	SeqNo:	1306288	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.0	63.8	116			
Surr: DNOP	4.5		5.000		89.5	70	130			

Sample ID	1703B61-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-2	Batch ID:	30871	RunNo:	41626					
Prep Date:	3/23/2017	Analysis Date:	3/24/2017	SeqNo:	1306941	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.2	45.79	17.92	76.7	51.6	130			
Surr: DNOP	3.9		4.579		85.7	70	130			

Sample ID	1703B61-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-2	Batch ID:	30871	RunNo:	41626					
Prep Date:	3/23/2017	Analysis Date:	3/24/2017	SeqNo:	1306942	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.3	46.25	17.92	83.0	51.6	130	6.01	20	
Surr: DNOP	4.3		4.625		92.4	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#: 1703B61

27-Mar-17

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305565	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	910		1000		91.2	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305566	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	76.4	125			
Surr: BFB	1000		1000		99.6	54	150			

Sample ID	MB-30837	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	30837	RunNo:	41605					
Prep Date:	3/22/2017	Analysis Date:	3/23/2017	SeqNo:	1305591	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	980		1000		97.8	54	150			

Sample ID	LCS-30837	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	30837	RunNo:	41605					
Prep Date:	3/22/2017	Analysis Date:	3/23/2017	SeqNo:	1305592	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	119	76.4	125			
Surr: BFB	1200		1000		116	54	150			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703B61

27-Mar-17

Client: Animas Environmental
Project: COPC San Juan 28-6 Unit 127N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305574	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	1.1		1.000		112	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R41606	RunNo:	41606					
Prep Date:		Analysis Date:	3/23/2017	SeqNo:	1305575	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132			

Sample ID	MB-30837	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	30837	RunNo:	41605					
Prep Date:	3/22/2017	Analysis Date:	3/23/2017	SeqNo:	1305611	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	1.1		1.000		108	66.6	132			

Sample ID	LCS-30837	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	30837	RunNo:	41605					
Prep Date:	3/22/2017	Analysis Date:	3/23/2017	SeqNo:	1305612	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.5	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.3	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	66.6	132			

Qualifiers:

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



Hall Environmental Analysis Laboratory
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: 1703B61

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

3/23/2017 7:20:00 AM

Completed By: Lindsay Mangin

3/23/2017 8:46:01 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:

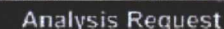
17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

☐ EDD (Type) _____

Sample Temperature: 117



If necessary, samples submitted to Hail 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

April 03, 2017

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

RE: COPC San Juan 28 6 Unit 127N

OrderNo.: 1703E72

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/30/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1703E72

Date Reported: 4/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 3/29/2017 3:06:00 PM

Lab ID: 1703E72-001

Matrix: MEOH (SOIL)

Received Date: 3/30/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	26	10		mg/Kg	1	3/31/2017 5:25:21 PM	30996
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/31/2017 5:25:21 PM	30996
Surr: DNOP	115	70-130		%Rec	1	3/31/2017 5:25:21 PM	30996
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	140	16		mg/Kg	5	3/31/2017 1:22:47 AM	G41768
Surr: BFB	212	54-150	S	%Rec	5	3/31/2017 1:22:47 AM	G41768
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.078		mg/Kg	5	3/31/2017 1:22:47 AM	B41768
Toluene	1.1	0.16		mg/Kg	5	3/31/2017 1:22:47 AM	B41768
Ethylbenzene	0.33	0.16		mg/Kg	5	3/31/2017 1:22:47 AM	B41768
Xylenes, Total	5.5	0.31		mg/Kg	5	3/31/2017 1:22:47 AM	B41768
Surr: 4-Bromofluorobenzene	105	66.6-132		%Rec	5	3/31/2017 1:22:47 AM	B41768

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 1703E72

Date Reported: 4/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 3/29/2017 11:40:00 AM

Lab ID: 1703E72-002

Matrix: MEOH (SOIL)

Received Date: 3/30/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	39	9.6		mg/Kg	1	3/31/2017 6:32:00 PM	30996
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/31/2017 6:32:00 PM	30996
Surr: DNOP	108	70-130		%Rec	1	3/31/2017 6:32:00 PM	30996
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	110	3.1		mg/Kg	1	3/31/2017 3:08:24 AM	G41768
Surr: BFB	292	54-150	S	%Rec	1	3/31/2017 3:08:24 AM	G41768
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	3/31/2017 3:08:24 AM	B41768
Toluene	ND	0.031		mg/Kg	1	3/31/2017 3:08:24 AM	B41768
Ethylbenzene	ND	0.031		mg/Kg	1	3/31/2017 3:08:24 AM	B41768
Xylenes, Total	2.1	0.062		mg/Kg	1	3/31/2017 3:08:24 AM	B41768
Surr: 4-Bromofluorobenzene	95.3	66.6-132		%Rec	1	3/31/2017 3:08:24 AM	B41768

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 1703E72

Date Reported: 4/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-8

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 3/29/2017 2:15:00 PM

Lab ID: 1703E72-003

Matrix: MEOH (SOIL)

Received Date: 3/30/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	19	10		mg/Kg	1	3/31/2017 6:53:57 PM	30996
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/31/2017 6:53:57 PM	30996
Surr: DNOP	108	70-130		%Rec	1	3/31/2017 6:53:57 PM	30996
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	36	3.3		mg/Kg	1	3/31/2017 3:34:45 AM	G41768
Surr: BFB	297	54-150	S	%Rec	1	3/31/2017 3:34:45 AM	G41768
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	3/31/2017 3:34:45 AM	B41768
Toluene	0.072	0.033		mg/Kg	1	3/31/2017 3:34:45 AM	B41768
Ethylbenzene	0.10	0.033		mg/Kg	1	3/31/2017 3:34:45 AM	B41768
Xylenes, Total	1.5	0.066		mg/Kg	1	3/31/2017 3:34:45 AM	B41768
Surr: 4-Bromofluorobenzene	94.0	66.6-132		%Rec	1	3/31/2017 3:34:45 AM	B41768

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 1703E72

Date Reported: 4/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-9

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 3/29/2017 11:45:00 AM

Lab ID: 1703E72-004

Matrix: MEOH (SOIL)

Received Date: 3/30/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	40	10		mg/Kg	1	3/31/2017 7:15:53 PM	30996
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/31/2017 7:15:53 PM	30996
Surr: DNOP	110	70-130		%Rec	1	3/31/2017 7:15:53 PM	30996
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	360	14		mg/Kg	5	3/31/2017 4:01:14 AM	G41768
Surr: BFB	513	54-150	S	%Rec	5	3/31/2017 4:01:14 AM	G41768
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.072		mg/Kg	5	3/31/2017 4:01:14 AM	B41768
Toluene	ND	0.14		mg/Kg	5	3/31/2017 4:01:14 AM	B41768
Ethylbenzene	ND	0.14		mg/Kg	5	3/31/2017 4:01:14 AM	B41768
Xylenes, Total	10	0.29		mg/Kg	5	3/31/2017 4:01:14 AM	B41768
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	5	3/31/2017 4:01:14 AM	B41768

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#: 1703E72

03-Apr-17

Client: Animas Environmental
Project: COPC San Juan 28 6 Unit 127N

Sample ID	LCS-30969		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 30969		RunNo: 41755					
Prep Date:	3/29/2017		Analysis Date: 3/30/2017		SeqNo: 1311683		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID	MB-30969	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	30969		RunNo:	41755				
Prep Date:	3/29/2017	Analysis Date:	3/30/2017		SeqNo:	1311684		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Sample ID	LCS-31008		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 31008		RunNo: 41755					
Prep Date:	3/31/2017		Analysis Date: 3/31/2017		SeqNo: 1312226		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.7	70	130			

Sample ID	MB-31008		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 31008		RunNo: 41755					
Prep Date:	3/31/2017		Analysis Date: 3/31/2017		SeqNo: 1312227		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	70	130			

Sample ID	1703E72-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-5	Batch ID:	30996	RunNo:	41755					
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1312823	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	9.7	48.50	26.25	86.0	51.6	130			
Surr: DNOP	4.7		4.850		97.0	70	130			

Sample ID	1703E72-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	SC-5		Batch ID:	30996		RunNo:	41755				
Prep Date:	3/30/2017		Analysis Date:	3/31/2017		SeqNo:	1312824		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	73	9.8	49.21	26.25	94.8	51.6	130	6.99	20		
Surr: DNOP	5.4		4.921		111	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#: 1703E72

03-Apr-17

Client: Animas Environmental
Project: COPC San Juan 28 6 Unit 127N

Sample ID	LCS-30996		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 30996		RunNo: 41755					
Prep Date:	3/30/2017		Analysis Date: 3/31/2017		SeqNo: 1312831		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.1	63.8	116			
Surr: DNOP	4.8		5.000		97.0	70	130			

Sample ID	MB-30996	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 30996			RunNo: 41755					
Prep Date:	3/30/2017	Analysis Date: 3/31/2017			SeqNo: 1312832		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	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#: 1703E72

03-Apr-17

Client: Animas Environmental
Project: COPC San Juan 28 6 Unit 127N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311397	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	880		1000		88.5	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311398	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	76.4	125			
Surr: BFB	980		1000		98.4	54	150			

Sample ID	MB-30956	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311406	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	780		1000		78.0	54	150			

Sample ID	LCS-30956	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311407	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	830		1000		83.2	54	150			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703E72

03-Apr-17

Client: Animas Environmental
Project: COPC San Juan 28 6 Unit 127N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311432	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	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311433	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.98	0.050	1.000	0	97.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	66.6	132			

Sample ID	MB-30956	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311441	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	66.6	132			

Sample ID	LCS-30956	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311442	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		84.4	66.6	132			

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: 1703E72

RcptNo: 1

Received by/date:

Logged By:

Lindsay Mangin

3/30/2017 7:30:00 AM

Completed By:

Lindsay Mangin

3/30/2017 8:31:44 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	1.8	Good	Yes			

Client: Animas Environmental Services

Mailing Address: 1004 W. Dixon St
Farmington NM 87401

Phone #: 505-94-2281
email or Fax#: claremarcano@comcast.net

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other☐ EDD (Type)

1101-AUGUST 1986

☐ Standard ☒ Rush 3 Day TAT

Project Name:

Project #: CPC San Juan 28-L Unit 127N

Project Manager:

Sampler: CL/DJ

On Ice: ☒ Yes ☐ No

Sample Temperature: 28

Container Type and #	Preservative Type
-------------------------	----------------------

HEAL No.

170.3E72

1-Methoxy
1-402 jar

~~Next~~
Cool

-001

-002

-003

-004

Received by:

Received by:

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

Date _____ Time _____

Remarks: Bill to Cmo Phillips

Watt: 10395581

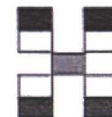
Supervisor: Keith Smith

USERID: BLAKEBN

Area: 7

ordered by: Lisa Hunter

Chief Questions:



HALL ENVIRONMENTAL ANALYSIS LABORATORY


www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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


Analysis Request

[illegible]

Date: 3/19/14	Time: 1747	Relinquished by: 
------------------	---------------	---

Date:	Time:	Relinquished by:
4/29/7	1820	Robert W. [illegible]

Received by:	Date	Time
<i>[Signature]</i>	3/29/17	1747

Received by:  Date: 03/30/17 Time: 07:30

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

April 03, 2017

Corwin Lameman
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: COPC San Juan 28-6 Unit 127 N

OrderNo.: 1703E90

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/30/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1703E90

Date Reported: 4/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: COPC San Juan 28-6 Unit 127 N

Collection Date: 3/29/2017 11:35:00 AM

Lab ID: 1703E90-001

Matrix: MEOH (SOIL)

Received Date: 3/30/2017 7:30:00 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	3/31/2017 7:37:44 PM	30996
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/31/2017 7:37:44 PM	30996
Surr: DNOP	111	70-130		%Rec	1	3/31/2017 7:37:44 PM	30996
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	3/31/2017 4:27:43 AM	G41768
Surr: BFB	85.2	54-150		%Rec	1	3/31/2017 4:27:43 AM	G41768
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	3/31/2017 4:27:43 AM	B41768
Toluene	ND	0.031		mg/Kg	1	3/31/2017 4:27:43 AM	B41768
Ethylbenzene	ND	0.031		mg/Kg	1	3/31/2017 4:27:43 AM	B41768
Xylenes, Total	ND	0.062		mg/Kg	1	3/31/2017 4:27:43 AM	B41768
Surr: 4-Bromofluorobenzene	87.4	66.6-132		%Rec	1	3/31/2017 4:27:43 AM	B41768

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#: 1703E90

03-Apr-17

Client: Animas Environmental Services

Project: COPC San Juan 28-6 Unit 127 N

Sample ID	LCS-30969	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30969	RunNo:	41755					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311683	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID	MB-30969	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	30969	RunNo:	41755					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311684	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Sample ID	LCS-31008	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	31008	RunNo:	41755					
Prep Date:	3/31/2017	Analysis Date:	3/31/2017	SeqNo:	1312226	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.7	70	130			

Sample ID	MB-31008	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31008	RunNo:	41755					
Prep Date:	3/31/2017	Analysis Date:	3/31/2017	SeqNo:	1312227	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	70	130			

Sample ID	LCS-30996	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30996	RunNo:	41755					
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1312831	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.1	63.8	116			
Surr: DNOP	4.8		5.000		97.0	70	130			

Sample ID	MB-30996	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	30996	RunNo:	41755					
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1312832	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	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#: 1703E90

03-Apr-17

Client: Animas Environmental Services
Project: COPC San Juan 28-6 Unit 127 N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311397	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	880		1000		88.5	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311398	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	76.4	125			
Surr: BFB	980		1000		98.4	54	150			

Sample ID	MB-30956	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311406	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	780		1000		78.0	54	150			

Sample ID	LCS-30956	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311407	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	830		1000		83.2	54	150			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703E90

03-Apr-17

Client: Animas Environmental Services

Project: COPC San Juan 28-6 Unit 127 N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311432	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	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B41768	RunNo:	41768					
Prep Date:		Analysis Date:	3/30/2017	SeqNo:	1311433	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.98	0.050	1.000	0	97.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	66.6	132			

Sample ID	MB-30956	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311441	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	66.6	132			

Sample ID	LCS-30956	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	30956	RunNo:	41768					
Prep Date:	3/29/2017	Analysis Date:	3/30/2017	SeqNo:	1311442	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		84.4	66.6	132			

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: 1703E90

RcptNo: 1

Received by/date: LM 03/30/17

Logged By: Andy Jansson 3/30/2017 7:30:00 AM

Completed By: Andy Jansson 03/30/17

Reviewed By: [Signature] 03/30/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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	1.8	Good	Not Present			



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

April 14, 2017

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

RE: COPC San Juan 28 6 Unit 127N

OrderNo.: 1704455

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/12/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1704455

Date Reported: 4/14/2017

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 4/11/2017 9:22:00 AM

Lab ID: 1704455-001

Matrix: MEOH (SOIL)

Received Date: 4/12/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	63	9.5		mg/Kg	1	4/13/2017 11:41:16 AM	31205
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	4/13/2017 11:41:16 AM	31205
Surr: DNOP	81.1	70-130		%Rec	1	4/13/2017 11:41:16 AM	31205
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	4/12/2017 6:11:55 PM	SG4206C
Surr: BFB	111	54-150		%Rec	1	4/12/2017 6:11:55 PM	SG4206C
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	4/12/2017 6:11:55 PM	SB4206C
Toluene	ND	0.033		mg/Kg	1	4/12/2017 6:11:55 PM	SB4206C
Ethylbenzene	ND	0.033		mg/Kg	1	4/12/2017 6:11:55 PM	SB4206C
Xylenes, Total	ND	0.065		mg/Kg	1	4/12/2017 6:11:55 PM	SB4206C
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	4/12/2017 6:11:55 PM	SB4206C

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.

Analytical Report

Lab Order 1704455

Date Reported: 4/14/2017

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 4/11/2017 10:50:00 AM

Lab ID: 1704455-002

Matrix: MEOH (SOIL)

Received Date: 4/12/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	28	9.2		mg/Kg	1	4/13/2017 1:05:15 PM	31205
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/13/2017 1:05:15 PM	31205
Surr: DNOP	86.7	70-130		%Rec	1	4/13/2017 1:05:15 PM	31205
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	130	2.9		mg/Kg	1	4/12/2017 6:35:21 PM	SG4206C
Surr: BFB	1020	54-150	S	%Rec	1	4/12/2017 6:35:21 PM	SG4206C
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.015	0.015		mg/Kg	1	4/12/2017 6:35:21 PM	SB4206C
Toluene	ND	0.029		mg/Kg	1	4/12/2017 6:35:21 PM	SB4206C
Ethylbenzene	ND	0.029		mg/Kg	1	4/12/2017 6:35:21 PM	SB4206C
Xylenes, Total	2.1	0.058		mg/Kg	1	4/12/2017 6:35:21 PM	SB4206C
Surr: 4-Bromofluorobenzene	183	66.6-132	S	%Rec	1	4/12/2017 6:35:21 PM	SB4206C

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 1704455

Date Reported: 4/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-9

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 4/11/2017 9:30:00 AM

Lab ID: 1704455-003

Matrix: MEOH (SOIL)

Received Date: 4/12/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/13/2017 1:33:30 PM	31205
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/13/2017 1:33:30 PM	31205
Surr: DNOP	86.3	70-130		%Rec	1	4/13/2017 1:33:30 PM	31205
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	4/12/2017 6:58:41 PM	SG4206C
Surr: BFB	102	54-150		%Rec	1	4/12/2017 6:58:41 PM	SG4206C
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.014		mg/Kg	1	4/12/2017 6:58:41 PM	SB4206C
Toluene	ND	0.027		mg/Kg	1	4/12/2017 6:58:41 PM	SB4206C
Ethylbenzene	ND	0.027		mg/Kg	1	4/12/2017 6:58:41 PM	SB4206C
Xylenes, Total	ND	0.055		mg/Kg	1	4/12/2017 6:58:41 PM	SB4206C
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	4/12/2017 6:58:41 PM	SB4206C

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 1704455

Date Reported: 4/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-12

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 4/11/2017 9:35:00 AM

Lab ID: 1704455-004

Matrix: MEOH (SOIL)

Received Date: 4/12/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	18	9.2		mg/Kg	1	4/13/2017 2:01:20 PM	31205
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/13/2017 2:01:20 PM	31205
Surr: DNOP	86.8	70-130		%Rec	1	4/13/2017 2:01:20 PM	31205
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	49	2.9		mg/Kg	1	4/12/2017 7:21:56 PM	SG4206C
Surr: BFB	416	54-150	S	%Rec	1	4/12/2017 7:21:56 PM	SG4206C
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	4/12/2017 7:21:56 PM	SB4206C
Toluene	ND	0.029		mg/Kg	1	4/12/2017 7:21:56 PM	SB4206C
Ethylbenzene	ND	0.029		mg/Kg	1	4/12/2017 7:21:56 PM	SB4206C
Xylenes, Total	1.6	0.059		mg/Kg	1	4/12/2017 7:21:56 PM	SB4206C
Surr: 4-Bromofluorobenzene	135	66.6-132	S	%Rec	1	4/12/2017 7:21:56 PM	SB4206C

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 1704455

Date Reported: 4/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-13

Project: COPC San Juan 28 6 Unit 127N

Collection Date: 4/11/2017 9:43:00 AM

Lab ID: 1704455-005

Matrix: MEOH (SOIL)

Received Date: 4/12/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	16	9.8		mg/Kg	1	4/13/2017 2:29:09 PM	31205
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/13/2017 2:29:09 PM	31205
Surr: DNOP	79.6	70-130		%Rec	1	4/13/2017 2:29:09 PM	31205
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	6.3	3.2		mg/Kg	1	4/12/2017 7:45:20 PM	SG4206C
Surr: BFB	131	54-150		%Rec	1	4/12/2017 7:45:20 PM	SG4206C
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	4/12/2017 7:45:20 PM	SB4206C
Toluene	ND	0.032		mg/Kg	1	4/12/2017 7:45:20 PM	SB4206C
Ethylbenzene	ND	0.032		mg/Kg	1	4/12/2017 7:45:20 PM	SB4206C
Xylenes, Total	0.13	0.064		mg/Kg	1	4/12/2017 7:45:20 PM	SB4206C
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	4/12/2017 7:45:20 PM	SB4206C

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#: 1704455

14-Apr-17

Client: Animas Environmental
Project: COPC San Juan 28 6 Unit 127N

Sample ID	MB-31222		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	31222		RunNo:	42086			
Prep Date:	4/13/2017		Analysis Date:	4/13/2017		SeqNo:	1321896		Units: %Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		112	70	130			

Sample ID	LCS-31222		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	31222		RunNo:	42086			
Prep Date:	4/13/2017		Analysis Date:	4/13/2017		SeqNo:	1321918		Units: %Rec	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			

Sample ID	LCS-31205		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	31205		RunNo:	42092			
Prep Date:	4/12/2017		Analysis Date:	4/13/2017		SeqNo:	1322086		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.8	63.8	116			
Surr: DNOP	4.3		5.000		85.9	70	130			

Sample ID	MB-31205		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	31205		RunNo:	42092			
Prep Date:	4/12/2017		Analysis Date:	4/13/2017		SeqNo:	1322087		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	8.4		10.00		83.9	70	130			

Sample ID	1704455-001AMS		SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	SC-5		Batch ID:	31205		RunNo:	42092			
Prep Date:	4/12/2017		Analysis Date:	4/13/2017		SeqNo:	1322365		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	91	9.9	49.60	63.13	56.5	51.6	130			
Surr: DNOP	4.7		4.960		95.0	70	130			

Sample ID	1704455-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	SC-5		Batch ID:	31205		RunNo:	42092			
Prep Date:	4/12/2017		Analysis Date:	4/13/2017		SeqNo:	1322366		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	96	9.6	47.80	63.13	69.2	51.6	130	5.35	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#: 1704455

14-Apr-17

Client: Animas Environmental

Project: COPC San Juan 28 6 Unit 127N

Sample ID	1704455-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-5	Batch ID:	31205	RunNo:	42092					
Prep Date:	4/12/2017	Analysis Date:	4/13/2017	SeqNo:	1322366	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		4.780		89.4	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#: 1704455

14-Apr-17

Client: Animas Environmental
Project: COPC San Juan 28 6 Unit 127N

Sample ID RB	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: SG42060		RunNo: 42060							
Prep Date:	Analysis Date: 4/12/2017		SeqNo: 1321736		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	910		1000		91.4	54	150			

Sample ID 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: SG42060		RunNo: 42060							
Prep Date:	Analysis Date: 4/12/2017		SeqNo: 1321737		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	76.4	125			
Surr: BFB	990		1000		99.1	54	150			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704455

14-Apr-17

Client: Animas Environmental
Project: COPC San Juan 28 6 Unit 127N

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	SB42060	RunNo:	42060					
Prep Date:		Analysis Date:	4/12/2017	SeqNo:	1321763	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	1.2		1.000		115	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	SB42060	RunNo:	42060					
Prep Date:		Analysis Date:	4/12/2017	SeqNo:	1321764	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	114	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.3	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	66.6	132			

Qualifiers:

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



Hall Environmental Analysis Laboratory
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: 1704455

RcptNo: 1

Received By: Lindsay Mangin

4/12/2017 7:00:00 AM

Completed By: Lindsay Mangin

4/12/2017 7:56:16 AM

Reviewed By: ENM

04/12/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.5	Good	Yes			

Client: **Animas Environmental Services, LLC**

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

Phone #: 505-564-2281

Email or Fax#: clameman@animasenvironmental.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 2-TAT

Project Name:

COPC SAN JUAN 28-6 UNIT 127N

Project #:

Project Manager:

C. Lameman/ E. McNally

Sampler: CL

On Ice: ☒ Yes ☐ No

Sample Temperature: 1

HEALING

1704455

BTEX - 8021B

TPH - 8015 (GRO/DRO/MRO)

Air Bubbles (Y or N)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109


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

Analysis Request

Date:	Time:	Relinquished by:
4/11/17	1620	Corbin

Date:	Time:	Relinquished by:
4/11/17	1836	Chet Waite

Received by:	Date	Time
C. M. T. Libet	4/11/17	11:20

Received by:  Date: 04/12/17 Time: 0700

Remarks: Bill to Conoco Phillips
WO # 10398881
Supervisor: Randy Smith
USERID: BLAKLBN
Area: 7
Ordered by: Lisa Hunter

Call v/ Questions