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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 258-1607**
Facility Name: **Schlosser WN Federal 3E**	Facility Type: **Gas Well**

Surface Owner **Federal**	Mineral Owner **Federal (SF-078673)**	API No. **3004524120**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	**27**	**28N**	**11W**	**985**	**South**	**1530**	**East**	**San Juan**

Latitude 36.62859 Longitude -107.98774

NATURE OF RELEASE

Type of Release **Historic BGT Release**	Volume of Release **Unknown**	Volume Recovered **None**
Source of Release **Below Grade Tank (BGT) – South Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **May 17, 2016**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **N/A**	
By Whom? **N/A**	Date and Hour **N/A**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

OIL CONS. DIV DIST. 3

DEC 12 2016

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

Describe Cause of Problem and Remedial Action Taken.*
Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.

Describe Area Affected and Cleanup Action Taken.*
Historic hydrocarbon impacted soil was found during the BGT closure for the subject well which exceeded NMOCD Action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 10.
The excavation was 40' x 77' x 13' in depth. Analytical results were below the regulatory standards – no further action required.
The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: **Lisa Hunter**		
Title: **Field Environmental Specialist**	Approval Date: 1/23/17	Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval: —	Attached ☐
Date: **December 8, 2016** Phone: **(505) 258-1607**		

* Attach Additional Sheets If Necessary

#NCS 1613938856

53

December 2, 2016

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

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

RE: South Below Grade Tank Closure, Release Assessment and Final Excavation Report
Schlosser WN Federal 3E
San Juan County, New Mexico

Dear Ms. Hunter:

On May 19, June 7, November 18, and November 23, 2016, 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) Schlosser WN Federal 3E located in San Juan County, New Mexico. An initial release assessment was completed on June 7, 2016, and the final excavation was completed by COPC contractors prior to AES's arrival on location on November 23, 2016.

1.0 Site Information

1.1 Location

Site Name – Schlosser WN Federal 3E
Legal Description – SW¼ SE¼, Section 27, T28N, R11W, San Juan County, New Mexico
Well Latitude/Longitude – N36.62870 and W107.98748, respectively
BGT Latitude/Longitude – N36.62859 and W107.98774, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2016

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

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

www.animasenvironmental.com

1.2 Depth to Groundwater Determination (NMAC 19.15.17.13 Table 1)

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) and New Mexico Office of the State Engineer (NMOSE) databases were reviewed, and depth to groundwater information could not be located. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be 50 to 100 feet below ground surface (bgs).

However, in accordance with the BGT closure plan application (Form C-144) filed May 11, 2016, 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 Lisa Hunter, COPC representative, on May 17, 2016, and on May 19, 2016, Corwin Lameman of AES traveled to the location. Soil sampling consisted of collection of one 5-point soil sample (S BGT SC-2) composited from four perimeter locations and one center location from below the BGT liner at the south BGT footprint. Note that N BGT SC-1 was collected from the north BGT and was addressed in a North BGT closure report dated November 10, 2016. Soil sample results for S BGT SC-2 were above the action levels, and a release was confirmed.

On June 7, 2016, AES personnel returned to the location to complete the release assessment field work. The assessment included collection and field sampling of 22 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 November 18 and 23, 2016, AES returned to the location to collect confirmation soil samples of the excavation extents. The field sampling activities included collection of eight confirmation soil samples (SC-1 through SC-8) from the walls and base of the excavation. The area of the final excavation measured approximately 40 feet by 77 feet by 13 feet in depth. Note that the depth of the excavation was limited due to a confining sandstone unit around 13 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 22 soil samples (SB-1 through SB-12) and 8 composite samples (SC-1 and SC-1 through SC-8) were collected during the assessment and excavation clearance. All but one soil sample were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbon (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*.

2.1.3 Chlorides

Soil sample S BGT SC-2 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The 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. Soil sample S BGT SC-2 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B;
- TPH per USEPA Method 418.1; and
- Chlorides per USEPA Method 300.0.

Soil samples SC-1 through SC-8 were laboratory analyzed for:

- BTEX per USEPA Method 8021B;
- TPH as gasoline range, diesel range and motor oil range organics (GRO/DRO/MRO) per USEPA Method 8015; and
- Chlorides per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

On May 19, 2016, BGT closure field screening results for VOCs via OVM were measured at 3,989 ppm in BGT SC-1. Field TPH concentrations were reported at 9,600 mg/kg. The field chloride concentration was 40 mg/kg.

On June 7, 2016, initial assessment field screening readings for VOCs via OVM ranged from 0.0 ppm in SB-4 and SB-8 through SB-12 up to 4,270 ppm in SB-1. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-5, SB-8, SB-9 and SB-10, up to 17,700 mg/kg in SB-7.

Final excavation field screening results for VOCs via OVM ranged from 1.0 ppm in SC-7 up to 730 ppm in SC-4. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-2 through SC-4 and SC-6 through SC-8, up to 94.6 mg/kg in SC-5. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 through 4. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results
Schlosser WN Federal 3E South BGT Closure, Release Assessment and Final Excavation
May through November 2016

Sample ID	*Date Sampled*	*Depth below BGT (ft)*	*VOCs OVM Reading (ppm)*	*Field TPH (418.1) (mg/kg)*	*Field Chlorides (mg/kg)*
		NMOCD Action Level	*--**	*100**	*600**
S BGT SC-2	5/19/16	0.5	3,989	**9,600**	40
SB-1	6/7/16	5	4,270	**6,120**	NA
		8	3,054	**2,410**	NA
		9	NA	NA	NA
SB-2	6/7/16	3	3,462	**7,420**	NA
		5	2,780	**7,130**	NA
SB-3	6/7/16	2	1.3	24.4	NA
SB-4	6/7/16	3	0.9	NA	NA
		4	0.0	27.7	NA
SB-5	6/7/16	4	3,164	**6,740**	NA
		5	57.1	<20.0	NA
SB-6	6/7/16	3.5	3,389	**14,200**	NA
		5.5	2,262	**2,000**	NA

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)	Field Chlorides (mg/kg)
		NMOCD Action Level	*--**	*100**	*600**
SB-7	6/7/16	4	1,496	**8,820**	NA
		5	3,015	**17,700**	NA
SB-8	6/7/16	4	1.1	NA	NA
		5	0.0	<20.0	NA
SB-9	6/7/16	4	0.0	NA	NA
		7	0.0	<20.0	NA
SB-10	6/7/16	4	0.0	NA	NA
		8	0.0	<20.0	NA
SB-11	6/7/16	4.5	0.0	29.3	NA
SB-12	6/7/16	4	0.0	26.1	NA
SC-1	11/18/16	0 to 13	117	55.2	NA
SC-2	11/23/16	0 to 13	4.5	<20.0	NA
SC-3	11/18/16	0 to 13	3.2	<20.0	NA
SC-4	11/18/16	0 to 13	730	<20.0	NA
SC-5	11/23/16	13	210	94.6	NA
SC-6	11/18/16	0 to 13	6.8	<20.0	NA
SC-7	11/23/16	0 to 13	1.0	<20.0	NA
SC-8	11/23/16	13	21.8	<20.0	NA

NA – not analyzed
*Action level determined by *NMAC 19.15.17.13 Table 1.*

Laboratory analysis of sample S BGT SC-2 was used to confirm the concentrations for BGT closure sampling results. Benzene concentrations were reported below the laboratory detection limit; however, total BTEX was measured at 90.5 mg/kg, and TPH was reported at 9,500 mg/kg. The chloride concentration was reported as less than 30 mg/kg.

Laboratory analyses for SC-1 through SC-8 were used to confirm field sampling results from the final excavation extents. Benzene concentrations were reported below laboratory detection limits in all samples. Total BTEX concentrations were below laboratory detection limits in all samples except SC-5 (0.20 mg/kg). Total TPH

concentrations were below laboratory detection limits in all samples except SC-1 (15 mg/kg), SC-2 (16 mg/kg) and SC-5 (68 mg/kg). Results are summarized in Table 2 and included on Figures 2 through 4. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides
Schlosser WN Federal 3E South BGT Closure, Release Assessment and Final Excavation
May through November 2016

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**
S BGT SC-2	5/19/16	0.5	<0.73	**90.5**	**9,500**	NA	NA	NA	<30
SC-1	11/18/16	0 to 13	<0.033	<0.166	NA	<3.3	15	<48	39
SC-2	11/23/16	0 to 13	<0.015	<0.138	NA	<3.1	16	<50	33
SC-3	11/18/16	0 to 13	<0.019	<0.175	NA	<3.9	<9.7	<48	<30
SC-4	11/18/16	0 to 13	<0.016	<0.141	NA	<3.1	<9.7	<49	<30
SC-5	11/23/16	13	<0.016	0.20	NA	4.0	64	<50	39
SC-6	11/18/16	0 to 13	<0.018	<0.159	NA	<3.5	<9.6	<48	<30
SC-7	11/23/16	0 to 13	<0.016	<0.143	NA	<3.2	<10	<50	<30
SC-8	11/23/16	13	<0.016	<0.148	NA	<3.3	<9.7	<49	<30

NA – not analyzed
*Action level determined by *NMAC 19.15.17.13 Table 1.*

3.0 Conclusions and Recommendations

3.1 BGT Closure

On May 19, 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 S BGT SC-2 reporting field concentrations of 9,600 mg/kg TPH (418.1) and laboratory analytical results of 90.5 mg/kg total BTEX and 9,500 mg/kg TPH (418.1), respectively. Chloride concentrations in S BGT SC-2 were reported below the NMOCD action level of 600 mg/kg, with 30 mg/kg. Based on field concentrations, a release was confirmed at the South BGT at the Schlosser WN Federal 3E location.

3.2 Release Assessment

On June 7, 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-1, SB-2, SB-5, SB-6, and SB-7. The highest field TPH concentration was reported in SB-7, with a concentration of 17,700 mg/kg TPH. Excavation of the release area was recommended.

On November 23, 2016, 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. Additionally, laboratory analytical results also reported benzene, total BTEX, and TPH concentrations (as GRO/DRO/MRO) in all samples as below NMOCD action levels.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Schlosser WN Federal 3E, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

David J. Reese
Environmental Scientist

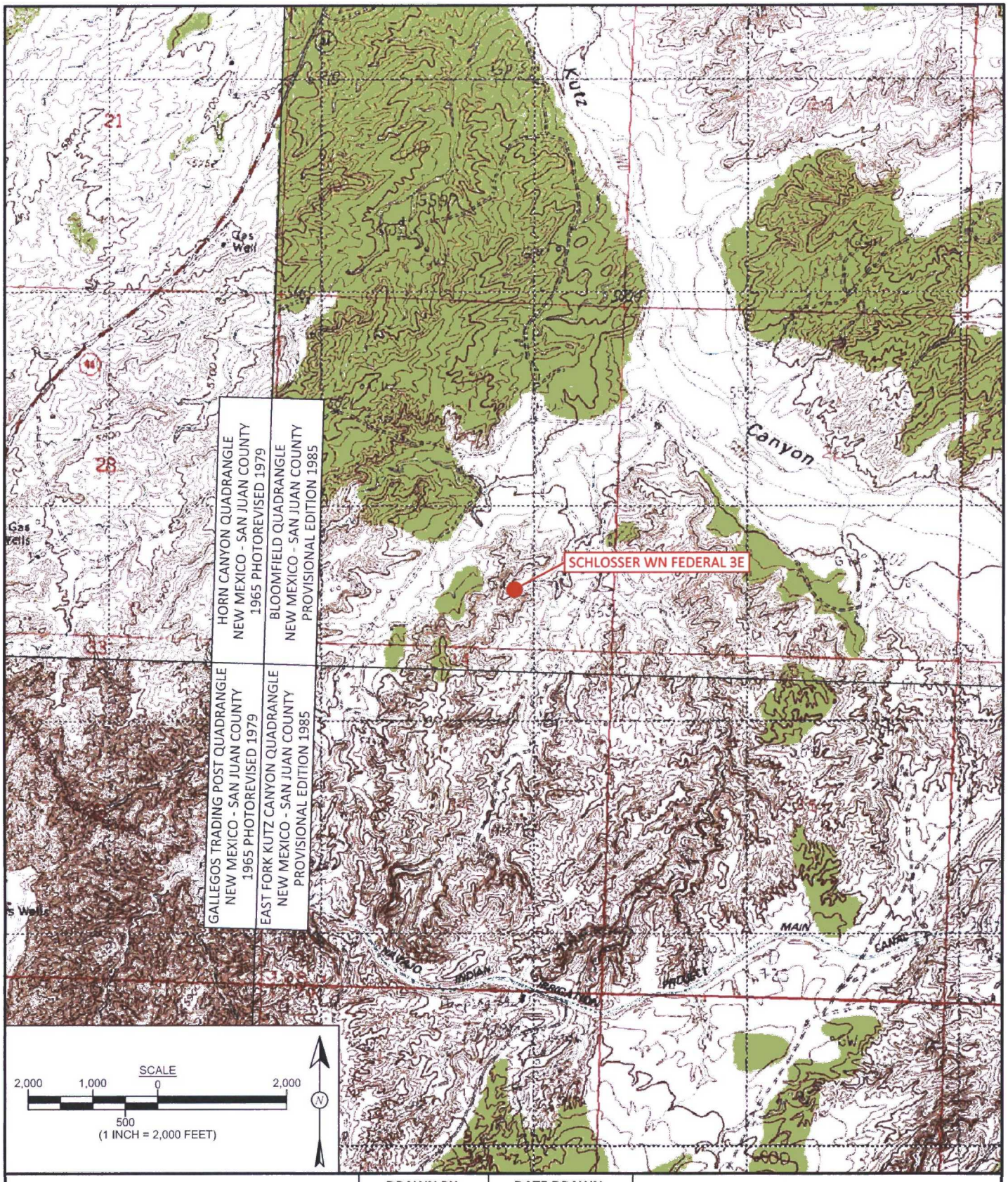
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2016
Figure 3. Release Assessment Sample Locations and Results, June 2016
Figure 4. Final Excavation Sample Locations and Results, November 2016
AES Field Sampling Report 051916
AES Field Sampling Report 060716
AES Field Sampling Report 111816 112316

Hall Laboratory Analytical Report 1605987
Hall Laboratory Analytical Report 1611A76
Hall Laboratory Analytical Report 1611B60
Hall Laboratory Analytical Report 1611C75

\\SVRMAIN2\Shared\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects Dropbox\2016 Client Projects\ConocoPhillips\Schlosser WN Federal 3E\Schlosser WN Federal 3E South BGT Closure Assessment and Excavation Report 120216.docx



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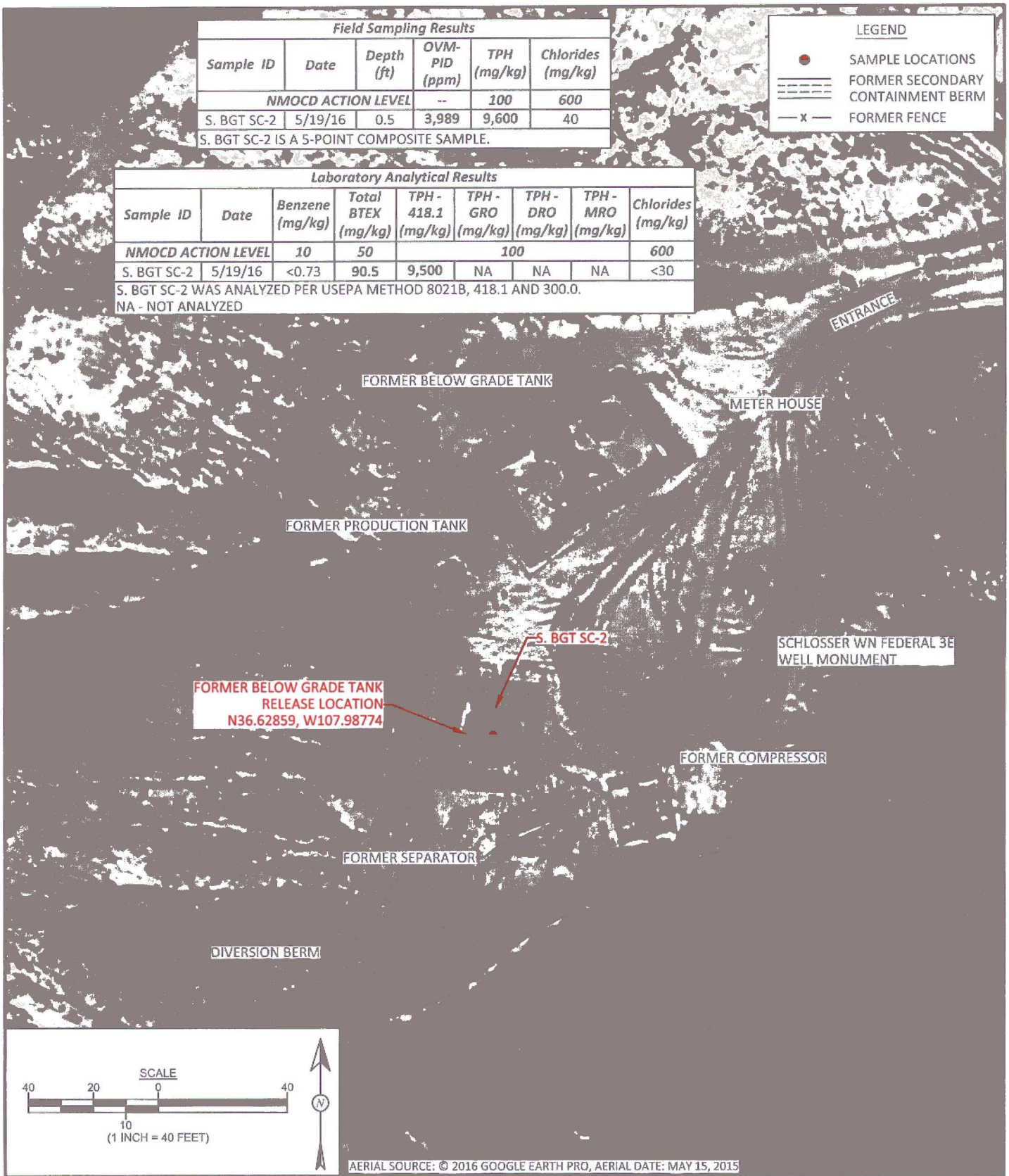
DRAWN BY: S. Glasses	**DATE DRAWN:** May 19, 2016
REVISIONS BY: C. Lameman	**DATE REVISED:** December 2, 2016
CHECKED BY: D. Reese	**DATE CHECKED:** December 2, 2016
APPROVED BY: E. McNally	**DATE APPROVED:** December 2, 2016

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SCHLOSSER WN FEDERAL 3E
SW¼ SE¼, SECTION 27, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.62870, W107.98748



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DRAWN BY: S. Glasses	DATE DRAWN: May 19, 2016
REVISIONS BY: C. Lameman	DATE REVISED: December 2, 2016
CHECKED BY: D. Reese	DATE CHECKED: December 2, 2016
APPROVED BY: E. McNally	DATE APPROVED: December 2, 2016

FIGURE 2

AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
MAY 2016
ConocoPhillips
SCHLOSSER WN FEDERAL 3E
SW¼ SE¼, SECTION 27, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.62870, W107.98748

FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS
JUNE 2016
ConocoPhillips
SCHLOSSER WN FEDERAL 3E
SW¼ SE¼, SECTION 27, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.62870, W107.98748

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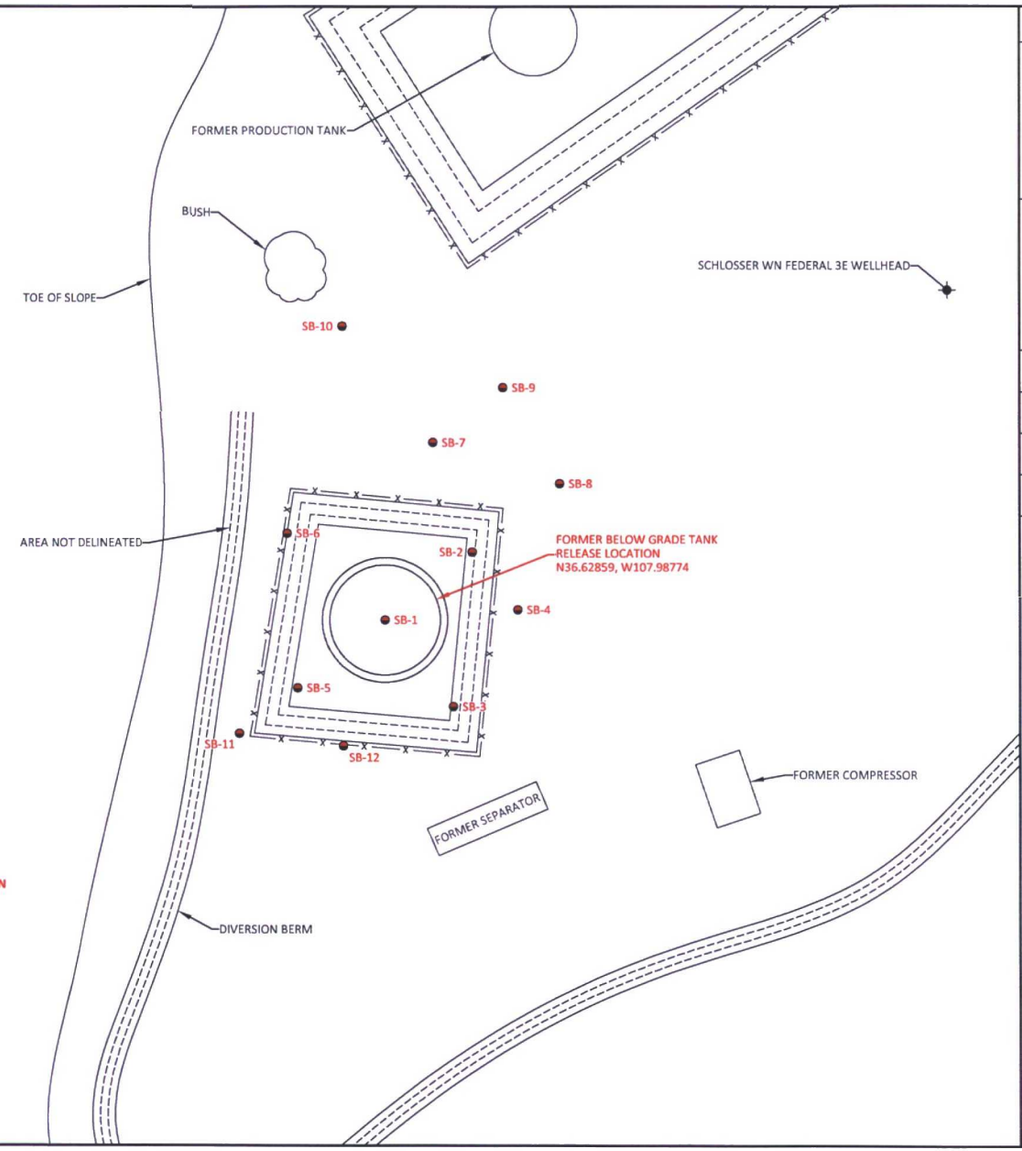
DRAWN BY:	DATE DRAWN:
C. Lameman	June 8, 2016
REVISIONS BY:	**DATE REVISED:**
C. Lameman	December 2, 2016
CHECKED BY:	**DATE CHECKED:**
E. McNally	December 2, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	December 2, 2016

LEGEND

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

Field Sampling Results				
Sample ID	*Date*	*Depth (ft)*	*OVM-PID (ppm)*	*TPH (mg/kg)*
NMOCD ACTION LEVEL			--	*100*
SB-1	6/7/16	5	4,270	**6,120**
		8	3,054	**2,410**
		9	*NA*	*NA*
SB-2	6/7/16	3	3,462	**7,420**
		5	2,780	**7,130**
SB-3	6/7/16	2	1.3	24.4
SB-4	6/7/16	3	0.9	*NA*
		4	0.0	27.7
SB-5	6/7/16	4	3,164	**6,740**
		5	57.1	<20.0
SB-6	6/7/16	3.5	3,389	**14,200**
		5.5	2,262	**2,000**
SB-7	6/7/16	4	1,496	**8,820**
		5	3,015	**17,700**
SB-8	6/7/16	4	1.1	*NA*
		5	0.0	<20.0
SB-9	6/7/16	4	0.0	*NA*
		7	0.0	<20.0
SB-10	6/7/16	4	0.0	*NA*
		8	0.0	<20.0
SB-11	6/7/16	4.5	0.0	29.3
SB-12	6/7/16	4	0.0	26.1

SAMPLES WERE ANALYZED PER USEPA METHOD 418.1.
NA - NOT ANALYZED



LIMITATIONS

1. **AREA NOT DELINEATED DUE TO POTENTIAL SOIL CONTAMINATION CONTINUING OFF OF THE LOCATION.**

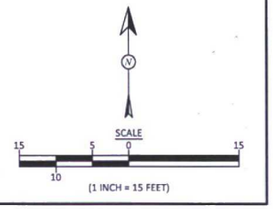
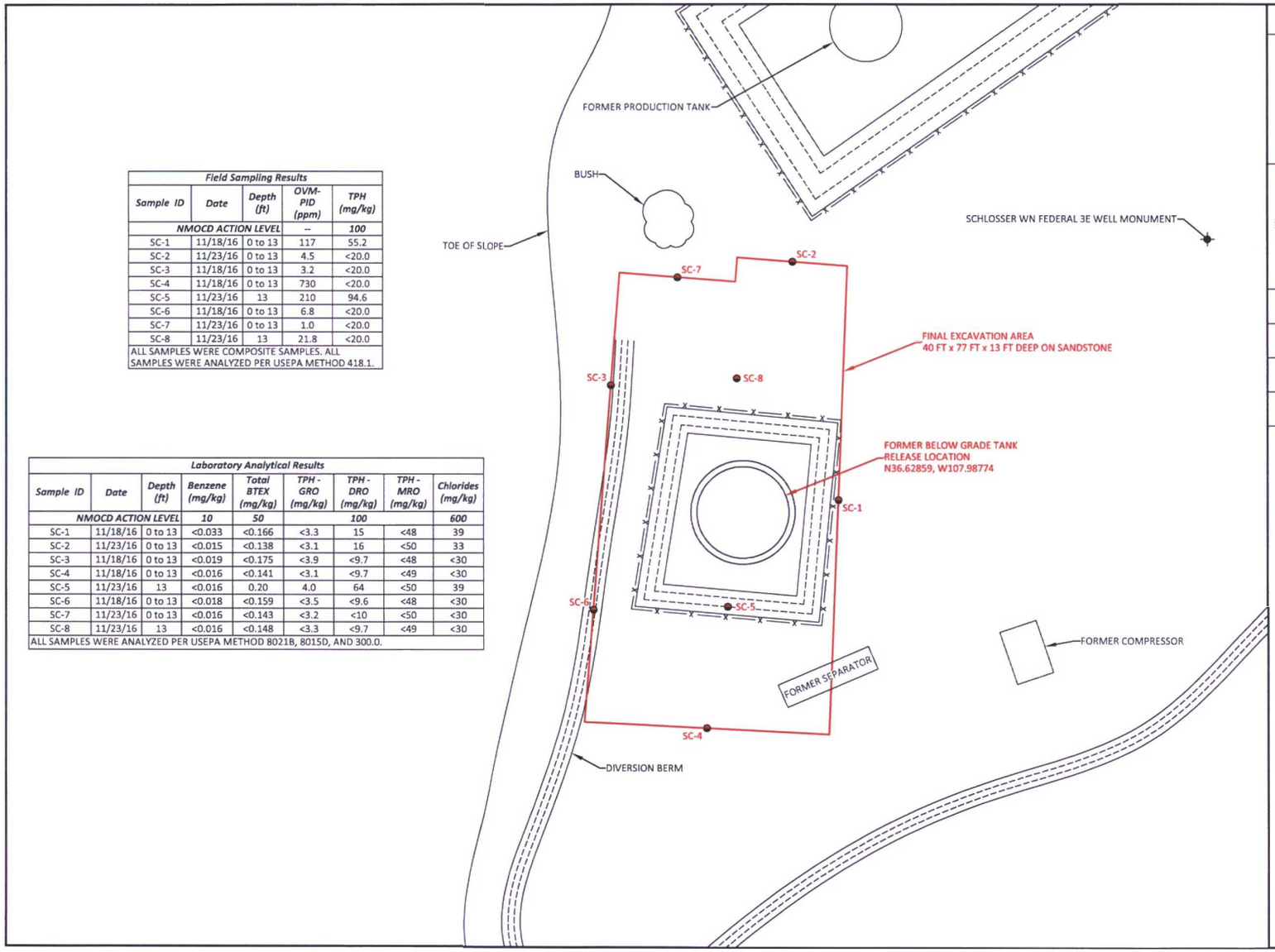


FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS NOVEMBER 2016

ConocoPhillips
SCHLOSSER WN FEDERAL 3E
SW¼ SE¼, SECTION 27, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.62870, W107.98748



Field Sampling Results

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			--	100
SC-1	11/18/16	0 to 13	117	55.2
SC-2	11/23/16	0 to 13	4.5	<20.0
SC-3	11/18/16	0 to 13	3.2	<20.0
SC-4	11/18/16	0 to 13	730	<20.0
SC-5	11/23/16	13	210	94.6
SC-6	11/18/16	0 to 13	6.8	<20.0
SC-7	11/23/16	0 to 13	1.0	<20.0
SC-8	11/23/16	13	21.8	<20.0

ALL SAMPLES WERE COMPOSITE SAMPLES. ALL SAMPLES WERE ANALYZED PER USEPA METHOD 418.1.

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)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			10	50		100		600
SC-1	11/18/16	0 to 13	<0.033	<0.166	<3.3	15	<48	39
SC-2	11/23/16	0 to 13	<0.015	<0.138	<3.1	16	<50	33
SC-3	11/18/16	0 to 13	<0.019	<0.175	<3.9	<9.7	<48	<30
SC-4	11/18/16	0 to 13	<0.016	<0.141	<3.1	<9.7	<49	<30
SC-5	11/23/16	13	<0.016	0.20	4.0	64	<50	39
SC-6	11/18/16	0 to 13	<0.018	<0.159	<3.5	<9.6	<48	<30
SC-7	11/23/16	0 to 13	<0.016	<0.143	<3.2	<10	<50	<30
SC-8	11/23/16	13	<0.016	<0.148	<3.3	<9.7	<49	<30

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B, 8015D, AND 300.0.

animas environmental services
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animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	November 28, 2016
REVISIONS BY:	**DATE REVISED:**
C. Lameman	December 2, 2016
CHECKED BY:	**DATE CHECKED:**
E. McNally	December 2, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	December 2, 2016

LEGEND

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

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

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Schlosser WN Federal 3E

Date: 5/19/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S BGT SC-2	5/19/2016	9:32	Composite	3,989	40	9,602	10:00	20.0	1	CL

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

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate
Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Cai Lu

Report Finalized: 5/19/2016

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Schlosser WN Federal 3E

Date: 6/7/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 5'	6/7/2016	9:36	4,270	6,117	10:19	200	10	CL
SB-1 @ 8'	6/7/2016	9:47	3,054	2,413	10:24	20.0	1	CL
SB-1 @ 9'	6/7/2016	10:04	NA	*Not Analyzed for TPH*				
SB-2 @ 3'	6/7/2016	10:28	3,462	7422	11:05	200	10	CL
SB-2 @ 5'	6/7/2016	10:47	2,780	7,128	11:19	200	10	CL
SB-3 @ 2'	6/7/2016	11:06	1.3	24.4	11:25	20.0	1	CL
SB-4 @ 3'	6/7/2016	11:43	0.9	*Not Analyzed for TPH*				
SB-4 @ 4'	6/7/2016	11:47	0.0	27.7	12:55	20.0	1	CL
SB-5 @ 4'	6/7/2016	12:24	3,164	6,737	13:24	200	10	CL
SB-5 @ 5'	6/7/2016	12:26	57.1	14.6	12:41	20.0	1	CL
SB-6 @ 3.5'	6/7/2016	12:43	3,389	14,159	13:32	200	10	CL
SB-6 @ 5.5'	6/7/2016	12:53	2,262	1,997	13:37	20.0	1	CL
SB-7 @ 4'	6/7/2016	13:46	1,496	8,825	14:12	200	10	CL
SB-7 @ 5'	6/7/2016	13:53	3,015	17,683	14:53	200	10	CL

Report Finalized: 6/7/16

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-8 @ 4'	6/7/2016	14:50	1.1	*Not Analyzed for TPH*				
SB-8 @ 5'	6/7/2016	14:58	0.0	<20.0	15:13	20.0	1	CL
SB-9 @ 4'	6/7/2016	15:11	0.0	*Not Analyzed for TPH*				
SB-9 @ 7'	6/7/2016	15:22	0.0	<20.0	15:37	20.0	1	CL
SB-10 @ 4'	6/7/2016	15:37	0.0	*Not Analyzed for TPH*				
SB-10 @ 8'	6/7/2016	15:51	0.0	<20.0	16:22	20.0	1	CL
SB-11 @ 4.5	6/7/2016	16:11	0.0	29.3	16:55	20.0	1	CL
SB-12 @ 4'	6/7/2016	16:24	0.0	26.1	16:51	20.0	1	CL

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

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: 

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Schlosser WN Federal 3E

Date: 11/18/16 & 11/23/16

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	11/18/2016	9:25	East Wall	117	55.2	10:34	20.0	1	CL
SC-3	11/18/2016	13:10	West Wall N	3.2	<20.0	13:36	20.0	1	CL
SC-4	11/18/2016	16:00	South Wall	730	<20.0	16:16	20.0	1	CL
SC-6	11/18/2016	13:18	West Wall S	6.8	<20.0	13:39	20.0	1	CL
SC-2	11/23/2016	12:32	North Wall E	4.5	<20.0	12:49	20.0	1	CL
SC-5	11/23/2016	15:55	South Base	210	94.6	16:09	20.0	1	CL
SC-7	11/23/2016	11:06	North Wall W	1.0	<20.0	11:31	20.0	1	CL
SC-8	11/23/2016	14:36	North Base	21.8	<20.0	14:53	20.0	1	CL

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

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Report Finalized: 11/23/16

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 26, 2016

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

RE: COPC SCHLOSSER WN FEDERAL 3E OrderNo.: 1605987

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/20/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1605987**
Date Reported: **5/26/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: S. BGT SC-2
Project: COPC SCHLOSSER WN FEDERAL 3E
Collection Date: 5/19/2016 9:32:00 AM
Lab ID: 1605987-001
Matrix: MEOH (SOIL)
Received Date: 5/20/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst: **TOM**	
Petroleum Hydrocarbons, TR	9500	190		mg/Kg	10	5/24/2016	25438
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	5/25/2016 8:38:31 PM	25511
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.73		mg/Kg	50	5/23/2016 11:35:52 PM	25418
Toluene	ND	1.5		mg/Kg	50	5/23/2016 11:35:52 PM	25418
Ethylbenzene	6.5	1.5		mg/Kg	50	5/23/2016 11:35:52 PM	25418
Xylenes, Total	84	2.9		mg/Kg	50	5/23/2016 11:35:52 PM	25418
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	50	5/23/2016 11:35:52 PM	25418

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#: **1605987**

26-May-16

Client: Animas Environmental

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID	**MB-25511**	SampType:	**mblk**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**25511**		RunNo:	**34490**				
Prep Date:	**5/25/2016**	Analysis Date:	**5/25/2016**		SeqNo:	**1063785**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-25511**	SampType:	**lcs**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**25511**		RunNo:	**34490**				
Prep Date:	**5/25/2016**	Analysis Date:	**5/25/2016**		SeqNo:	**1063786**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	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#: **1605987**

26-May-16

Client: Animas Environmental

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-25438**	SampType: **MBLK**	TestCode: **EPA Method 418.1: TPH**
Client ID: **PBS**	Batch ID: **25438**	RunNo: **34441**
Prep Date: **5/23/2016**	Analysis Date: **5/24/2016**	SeqNo: **1061977** 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-25438**	SampType: **LCS**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS**	Batch ID: **25438**	RunNo: **34441**
Prep Date: **5/23/2016**	Analysis Date: **5/24/2016**	SeqNo: **1061978** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	96	20	100.0	0	95.7	83.4	127			

Sample ID **LCSD-25438**	SampType: **LCSD**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS02**	Batch ID: **25438**	RunNo: **34441**
Prep Date: **5/23/2016**	Analysis Date: **5/24/2016**	SeqNo: **1061979** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	101	83.4	127	5.60	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#: **1605987**

26-May-16

Client: Animas Environmental

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-25418**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25418**	RunNo: **34421**
Prep Date: **5/20/2016**	Analysis Date: **5/23/2016**	SeqNo: **1061391** 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		111	80	120			

Sample ID **LCS-25418**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25418**	RunNo: **34421**
Prep Date: **5/20/2016**	Analysis Date: **5/23/2016**	SeqNo: **1061392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.7	75.3	123			
Toluene	0.97	0.050	1.000	0	97.3	80	124			
Ethylbenzene	0.96	0.050	1.000	0	96.0	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	96.8	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1605987 RcptNo: 1

Received by/date: JA 05/20/16

Logged By: Lindsay Mangin 5/20/2016 8:00:00 AM

Completed By: Lindsay Mangin 5/20/2016 1:22:35 PM

Reviewed By: IO 05/20/16

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services, LLC

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

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
X Standard ☐ Rush_____

Project Name:
COPC SCHLOSSER WN FEDERAL 3E

Project #:

Project Manager:
E. Skyles

Sampler: C. Lameman
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1605987	BTEX - 8021B	TPH - EPA 418.1	Chlorides - 300.0	Air Bubbles (Y or N)
5/19/16	9:32	SOIL	S. BGT SC-2	1 -MeOH Kit/ 1 - 4 oz.	MeOH/ cool	-001	X	X	X	

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/19/16	1647			5/19/16	1647
5/19/16	2026			05/20/16	0800

Remarks: Bill to Conoco Phillips
WO # 10390486
Supervisor: Dusty Mars
USERID: KGARCIA
Area: 2
Ordered by: Lisa Hunter

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 28, 2016

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

RE: COPC SCHLOSSER WN FEDERAL 3E OrderNo.: 1611A76

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/19/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1611A76**
Date Reported: **11/28/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-1
Project: COPC SCHLOSSER WN FEDERAL 3E
Collection Date: 11/18/2016 9:25:00 AM
Lab ID: 1611A76-001 **Matrix:** SOIL
Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	39	30		mg/Kg	20	11/22/2016 8:20:28 PM	28796
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	15	9.7		mg/Kg	1	11/23/2016 10:38:20 AM	28807
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2016 10:38:20 AM	28807
Surr: DNOP	91.7	70-130		%Rec	1	11/23/2016 10:38:20 AM	28807
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	11/22/2016 12:18:51 PM	28762
Surr: BFB	95.9	68.3-144		%Rec	1	11/22/2016 12:18:51 PM	28762
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.033		mg/Kg	1	11/22/2016 12:18:51 PM	28762
Toluene	ND	0.033		mg/Kg	1	11/22/2016 12:18:51 PM	28762
Ethylbenzene	ND	0.033		mg/Kg	1	11/22/2016 12:18:51 PM	28762
Xylenes, Total	ND	0.067		mg/Kg	1	11/22/2016 12:18:51 PM	28762
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/22/2016 12:18:51 PM	28762

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC SCHLOSSER WN FEDERAL 3E
Lab ID: 1611A76-002 **Matrix:** SOIL

Client Sample ID: SC-3
Collection Date: 11/18/2016 1:10:00 PM
Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/22/2016 8:32:53 PM	28796
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/23/2016 11:01:27 AM	28807
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2016 11:01:27 AM	28807
Surr: DNOP	92.7	70-130		%Rec	1	11/23/2016 11:01:27 AM	28807
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	11/21/2016 11:35:09 PM	28762
Surr: BFB	89.8	68.3-144		%Rec	1	11/21/2016 11:35:09 PM	28762
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	11/21/2016 11:35:09 PM	28762
Toluene	ND	0.039		mg/Kg	1	11/21/2016 11:35:09 PM	28762
Ethylbenzene	ND	0.039		mg/Kg	1	11/21/2016 11:35:09 PM	28762
Xylenes, Total	ND	0.078		mg/Kg	1	11/21/2016 11:35:09 PM	28762
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/21/2016 11:35:09 PM	28762

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-6
Project: COPC SCHLOSSER WN FEDERAL 3E
Collection Date: 11/18/2016 1:18:00 PM
Lab ID: 1611A76-003 **Matrix:** SOIL
Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/22/2016 9:10:07 PM	28796
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/23/2016 11:24:29 AM	28807
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2016 11:24:29 AM	28807
Surr: DNOP	93.3	70-130		%Rec	1	11/23/2016 11:24:29 AM	28807
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	11/21/2016 11:58:31 PM	28762
Surr: BFB	87.4	68.3-144		%Rec	1	11/21/2016 11:58:31 PM	28762
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	11/21/2016 11:58:31 PM	28762
Toluene	ND	0.035		mg/Kg	1	11/21/2016 11:58:31 PM	28762
Ethylbenzene	ND	0.035		mg/Kg	1	11/21/2016 11:58:31 PM	28762
Xylenes, Total	ND	0.071		mg/Kg	1	11/21/2016 11:58:31 PM	28762
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/21/2016 11:58:31 PM	28762

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#: **1611A76**

28-Nov-16

Client: Animas Environmental

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID	**MB-28796**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**28796**	RunNo:	**38922**					
Prep Date:	**11/21/2016**	Analysis Date:	**11/22/2016**	SeqNo:	**1216481**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-28796**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**28796**	RunNo:	**38922**					
Prep Date:	**11/21/2016**	Analysis Date:	**11/22/2016**	SeqNo:	**1216482**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	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#: **1611A76**

28-Nov-16

Client: Animas Environmental

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-28816**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **28816**	RunNo: **38941**
Prep Date: **11/22/2016**	Analysis Date: **11/23/2016**	SeqNo: **1217613** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.4		10.00		73.9	70	130			

Sample ID **LCS-28807**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **28807**	RunNo: **38942**
Prep Date: **11/22/2016**	Analysis Date: **11/23/2016**	SeqNo: **1217667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	62.6	124			
Surr: DNOP	4.4		5.000		88.8	70	130			

Sample ID **MB-28807**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **28807**	RunNo: **38942**
Prep Date: **11/22/2016**	Analysis Date: **11/23/2016**	SeqNo: **1217668** 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	9.6		10.00		96.4	70	130			

Sample ID **LCS-28816**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **28816**	RunNo: **38942**
Prep Date: **11/22/2016**	Analysis Date: **11/23/2016**	SeqNo: **1217831** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.4	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#: **1611A76**

28-Nov-16

Client: Animas Environmental

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-28762**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **28762**	RunNo: **38886**
Prep Date: **11/18/2016**	Analysis Date: **11/21/2016**	SeqNo: **1215255** 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		83.5	68.3	144			

Sample ID **LCS-28762**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **28762**	RunNo: **38886**
Prep Date: **11/18/2016**	Analysis Date: **11/21/2016**	SeqNo: **1215256** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.7	74.6	123			
Surr: BFB	900		1000		89.6	68.3	144			

Sample ID **MB-28828**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216601** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	860		1000		85.9	68.3	144			

Sample ID **LCS-28828**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216602** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.4	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#: **1611A76**

28-Nov-16

Client: Animas Environmental

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-28762**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **28762**	RunNo: **38886**
Prep Date: **11/18/2016**	Analysis Date: **11/21/2016**	SeqNo: **1215295** 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		99.8	80	120			

Sample ID **LCS-28762**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **28762**	RunNo: **38886**
Prep Date: **11/18/2016**	Analysis Date: **11/21/2016**	SeqNo: **1215296** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	75.2	115			
Toluene	0.99	0.050	1.000	0	99.0	80.7	112			
Ethylbenzene	0.96	0.050	1.000	0	96.1	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	94.5	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID **MB-28828**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216628** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID **LCS-28828**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216629** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **1611A76** RcptNo: **1**

Received by/date: LM 11/19/16

Logged By: **Anne Thorne** 11/19/2016 8:15:00 AM Anne Thorne

Completed By: **Anne Thorne** 11/21/2016 Anne Thorne

Reviewed By: ~~AS~~ 11/21/16

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

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

Phone #: 505-564-2281

Email or Fax#: clameman@animasenvironmental.c

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

Accreditation:
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard X Rush 3 Day

Project Name:
COPC SCHLOSSER WN FEDERAL 3E

Project #:

Project Manager:
C. Lameman / E. McNally

Sampler: C. Lameman
On Ice: ☑ Yes ☐ No
Sample Temperature: 3.2

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1611A76	Analysis Request: 8015D (GRO / DRO / MRO)	8021B (BTEX + ~~MTBE~~)	300.0 - (Chlorides)	Air Bubbles (Y or N)
11/18/16	9:25	SOIL	SC-1	2 - 4 oz. MeoH Kit	cool/ MeoH	001	X	X	X	
11/18/16	13:10	SOIL	SC-3	2 - 4 oz. MeoH Kit	cool/ MeoH	002	X	X	X	
11/18/16	13:18	SOIL	SC-6	2 - 4 oz. MeoH Kit	cool/ MeoH	003	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time
	11/18/16	1855		11/18/16	1855
	11/18/16	1942		11/19/16	0815

Remarks: Bill to Conoco Phillips
WO # 10390486
Supervisor: Dusty Mars
USERID: KGARCIA
Area: 2
Ordered by: Lisa Hunter

Call w/ Questions.

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 28, 2016

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

RE: COPC SCHLOSSER WN FEDERAL 3E OrderNo.: 1611B60

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/22/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1611B60**
Date Reported: **11/28/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-4
Project: COPC SCHLOSSER WN FEDERAL 3E
Collection Date: 11/18/2016 4:00:00 PM
Lab ID: 1611B60-001 **Matrix:** SOIL
Received Date: 11/22/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/22/2016 11:58:53 AM	28812
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/22/2016 10:18:44 AM	28806
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/22/2016 10:18:44 AM	28806
Surr: DNOP	84.5	70-130		%Rec	1	11/22/2016 10:18:44 AM	28806
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	11/22/2016 9:47:47 AM	28828
Surr: BFB	89.2	68.3-144		%Rec	1	11/22/2016 9:47:47 AM	28828
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	11/22/2016 9:47:47 AM	28828
Toluene	ND	0.031		mg/Kg	1	11/22/2016 9:47:47 AM	28828
Ethylbenzene	ND	0.031		mg/Kg	1	11/22/2016 9:47:47 AM	28828
Xylenes, Total	ND	0.063		mg/Kg	1	11/22/2016 9:47:47 AM	28828
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	11/22/2016 9:47:47 AM	28828

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#: **1611B60**

28-Nov-16

Client: Animas Environmental Services

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-28812**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **28812**	RunNo: **38932**
Prep Date: **11/22/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216811** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-28812**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **28812**	RunNo: **38932**
Prep Date: **11/22/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216812** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1611B60**

28-Nov-16

Client: Animas Environmental Services

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **1611B60-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SC-4**	Batch ID: **28806**	RunNo: **38908**
Prep Date: **11/22/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216202** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	47.98	4.607	76.1	51.6	130			
Surr: DNOP	3.8		4.798		78.8	70	130			

Sample ID **1611B60-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SC-4**	Batch ID: **28806**	RunNo: **38908**
Prep Date: **11/22/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.55	4.607	82.8	51.6	130	10.4	20	
Surr: DNOP	4.1		4.955		83.2	70	130	0	0	

Sample ID **LCS-28806**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **28806**	RunNo: **38908**
Prep Date: **11/22/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216204** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.9	62.6	124			
Surr: DNOP	3.8		5.000		75.9	70	130			

Sample ID **MB-28806**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **28806**	RunNo: **38908**
Prep Date: **11/22/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216205** 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	7.9		10.00		79.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1611B60**

28-Nov-16

Client: Animas Environmental Services

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-28828**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216601** 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	860		1000		85.9	68.3	144			

Sample ID **LCS-28828**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216602** 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	74.6	123			
Surr: BFB	910		1000		91.4	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#: **1611B60**

28-Nov-16

Client: Animas Environmental Services

Project: COPC SCHLOSSER WN FEDERAL 3E

Sample ID **MB-28828**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216628** 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		102	80	120			

Sample ID **LCS-28828**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **28828**	RunNo: **38913**
Prep Date: **11/21/2016**	Analysis Date: **11/22/2016**	SeqNo: **1216629** 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	113	75.2	115			
Toluene	1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene	0.99	0.050	1.000	0	98.9	78.9	117			
Xylenes, Total	2.9	0.10	3.000	0	97.0	79.2	115			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1611B60 RcptNo: 1

Received by/date: AT 11/22/16

Logged By: Anne Thorne 11/22/2016 7:50:00 AM

Completed By: Anne Thorne 11/22/2016 7:56:15 AM

Reviewed By: aJ 11/22/16

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

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

Phone #: 505-564-2281

Email or Fax#: clameman@animasenvironmental.c

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard X Rush: Same Day

Project Name:
COPC SCHLOSSER WN FEDERAL 3E

Project #:

Project Manager:
C. Lameman

Sampler: C. Lameman
On Ice: X Yes ☐ No
Sample Temperature: 1.0

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1611B60	Analysis Request: 8015D (GRO / DRO / MRO)	8021B (BTEX)	300.0 - (Chlorides)	Air Bubbles (Y or N)
11/18/16	16:00	SOIL	SC-4	2 - 4 oz. MeoH Kit	cool/ MeoH	-001	X	X	X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/21/16	1730			11/21/16	1730
11/21/16	1820			11/22/16	0750

Remarks: Bill to Conoco Phillips
WO # 10390486
Supervisor: Dusty Mars
USERID: KGARCIA
Area: 2
Ordered by: Lisa Hunter

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 30, 2016

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

RE: COPC Schlosser WN Federal 3E OrderNo.: 1611C75

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/26/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-2
Project: COPC Schlosser WN Federal 3E
Collection Date: 11/23/2016 12:32:00 PM
Lab ID: 1611C75-001
Matrix: MEOH (SOIL)
Received Date: 11/26/2016 12:20:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	33	30		mg/Kg	20	11/30/2016 1:19:29 AM	28906
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	11/29/2016 5:26:57 PM	28868
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2016 5:26:57 PM	28868
Surr: DNOP	89.0	70-130		%Rec	1	11/29/2016 5:26:57 PM	28868
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	11/28/2016 11:12:00 AM	28848
Surr: BFB	90.8	68.3-144		%Rec	1	11/28/2016 11:12:00 AM	28848
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	11/28/2016 11:12:00 AM	28848
Toluene	ND	0.031		mg/Kg	1	11/28/2016 11:12:00 AM	28848
Ethylbenzene	ND	0.031		mg/Kg	1	11/28/2016 11:12:00 AM	28848
Xylenes, Total	ND	0.061		mg/Kg	1	11/28/2016 11:12:00 AM	28848
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	11/28/2016 11:12:00 AM	28848

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-5
Project: COPC Schlosser WN Federal 3E
Collection Date: 11/23/2016 3:55:00 PM
Lab ID: 1611C75-002
Matrix: MEOH (SOIL)
Received Date: 11/26/2016 12:20:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	39	30		mg/Kg	20	11/30/2016 1:31:53 AM	28906
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	64	9.9		mg/Kg	1	11/29/2016 5:53:58 PM	28868
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2016 5:53:58 PM	28868
Surr: DNOP	101	70-130		%Rec	1	11/29/2016 5:53:58 PM	28868
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	4.0	3.1		mg/Kg	1	11/28/2016 4:52:40 PM	28848
Surr: BFB	153	68.3-144	S	%Rec	1	11/28/2016 4:52:40 PM	28848
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	11/28/2016 4:52:40 PM	28848
Toluene	ND	0.031		mg/Kg	1	11/28/2016 4:52:40 PM	28848
Ethylbenzene	0.038	0.031		mg/Kg	1	11/28/2016 4:52:40 PM	28848
Xylenes, Total	0.16	0.063		mg/Kg	1	11/28/2016 4:52:40 PM	28848
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/28/2016 4:52:40 PM	28848

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-7
Project: COPC Schlosser WN Federal 3E
Collection Date: 11/23/2016 11:06:00 AM
Lab ID: 1611C75-003
Matrix: MEOH (SOIL)
Received Date: 11/26/2016 12:20:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/30/2016 1:44:18 AM	28906
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/29/2016 6:20:40 PM	28868
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2016 6:20:40 PM	28868
Surr: DNOP	92.7	70-130		%Rec	1	11/29/2016 6:20:40 PM	28868
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	11/28/2016 12:00:23 PM	28848
Surr: BFB	102	68.3-144		%Rec	1	11/28/2016 12:00:23 PM	28848
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	11/28/2016 12:00:23 PM	28848
Toluene	ND	0.032		mg/Kg	1	11/28/2016 12:00:23 PM	28848
Ethylbenzene	ND	0.032		mg/Kg	1	11/28/2016 12:00:23 PM	28848
Xylenes, Total	ND	0.063		mg/Kg	1	11/28/2016 12:00:23 PM	28848
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	11/28/2016 12:00:23 PM	28848

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-8
Project: COPC Schlosser WN Federal 3E
Collection Date: 11/23/2016 2:36:00 PM
Lab ID: 1611C75-004
Matrix: MEOH (SOIL)
Received Date: 11/26/2016 12:20:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	11/30/2016 1:56:42 AM	28906
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/29/2016 6:46:55 PM	28868
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2016 6:46:55 PM	28868
Surr: DNOP	94.7	70-130		%Rec	1	11/29/2016 6:46:55 PM	28868
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	11/28/2016 12:24:38 PM	28848
Surr: BFB	93.3	68.3-144		%Rec	1	11/28/2016 12:24:38 PM	28848
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	11/28/2016 12:24:38 PM	28848
Toluene	ND	0.033		mg/Kg	1	11/28/2016 12:24:38 PM	28848
Ethylbenzene	ND	0.033		mg/Kg	1	11/28/2016 12:24:38 PM	28848
Xylenes, Total	ND	0.066		mg/Kg	1	11/28/2016 12:24:38 PM	28848
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	11/28/2016 12:24:38 PM	28848

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#: **1611C75**

30-Nov-16

Client: Animas Environmental

Project: COPC Schlosser WN Federal 3E

Sample ID	**MB-28906**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**28906**	RunNo:	**39040**					
Prep Date:	**11/29/2016**	Analysis Date:	**11/29/2016**	SeqNo:	**1221189**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-28906**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**28906**	RunNo:	**39040**					
Prep Date:	**11/29/2016**	Analysis Date:	**11/29/2016**	SeqNo:	**1221190**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	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#: **1611C75**

30-Nov-16

Client: Animas Environmental

Project: COPC Schlosser WN Federal 3E

Sample ID **LCS-28868**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **28868**	RunNo: **39006**
Prep Date: **11/28/2016**	Analysis Date: **11/29/2016**	SeqNo: **1220403** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	62.6	124			
Surr: DNOP	4.6		5.000		92.1	70	130			

Sample ID **MB-28868**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **28868**	RunNo: **39006**
Prep Date: **11/28/2016**	Analysis Date: **11/29/2016**	SeqNo: **1220404** 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	9.1		10.00		91.0	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#: **1611C75**

30-Nov-16

Client: Animas Environmental

Project: COPC Schlosser WN Federal 3E

Sample ID **MB-28848**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **28848**	RunNo: **38984**
Prep Date: **11/23/2016**	Analysis Date: **11/28/2016**	SeqNo: **1219303** 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		91.5	68.3	144			

Sample ID **LCS-28848**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **28848**	RunNo: **38984**
Prep Date: **11/23/2016**	Analysis Date: **11/28/2016**	SeqNo: **1219304** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	74.6	123			
Surr: BFB	990		1000		99.0	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#: **1611C75**

30-Nov-16

Client: Animas Environmental

Project: COPC Schlosser WN Federal 3E

Sample ID **MB-28848**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **28848**	RunNo: **38984**
Prep Date: **11/23/2016**	Analysis Date: **11/28/2016**	SeqNo: **1219341** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	80	120			

Sample ID **LCS-28848**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **28848**	RunNo: **38984**
Prep Date: **11/23/2016**	Analysis Date: **11/28/2016**	SeqNo: **1219342** 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	96.9	75.2	115			
Toluene	0.94	0.050	1.000	0	94.3	80.7	112			
Ethylbenzene	0.88	0.050	1.000	0	87.9	78.9	117			
Xylenes, Total	2.6	0.10	3.000	0	88.3	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1611C75 | RcptNo: 1

Received by/date: 11/26/16

Logged By: Lindsay Mangin 11/26/2016 12:20:00 PM

Completed By: Lindsay Mangin 11/28/2016 7:35:52 AM

Reviewed By: 11/28/16

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

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

Phone #: 505-564-2281

Email or Fax#: clameman@animasenvironmental.c

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard X Rush: 3 Day Turn.

Project Name:
COPC SCHLOSSER WN FEDERAL 3E

Project #:

Project Manager:
C. Lameman

Sampler: C. Lameman
On Ice: X Yes ☐ No
Sample Temperature: 2.3

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1611675	8015D (GRO / DRO / MRO)	8021B (BTEX)	300.0 - (Chlorides)	Air Bubbles (Y or N)
11/23/16	12:32	SOIL	SC-2	2 - 4 oz. MeoH Kit	cool/ MeoH	-001	X	X	X	
11/23/16	15:55	SOIL	SC-5	2 - 4 oz. MeoH Kit	cool/ MeoH	-002	X	X	X	
11/23/16	11:06	SOIL	SC-7	2 - 4 oz. MeoH Kit	cool/ MeoH	-003	X	X	X	
11/23/16	14:36	SOIL	SC-8	2 - 4 oz. MeoH Kit	cool/ MeoH	-004	X	X	X	

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/25/16	1438			11/25/16	1438
11/25/16	1524			11/26/16	1220

Remarks: Bill to Conoco Phillips
WO # 10390486
Supervisor: Dusty Mars
USERID: KGARCIA
Area: 2
Ordered by: Lisa Hunter