District I French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Proposed Alternative Method Permit or Closure Plan Application

Proposed Alternative Method Permit or Closi	are Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternation Modification to an existing permit/or registration Closure plan only submitted for an existing permit or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit,	below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations environment. Nor does approval relieve the operator of its responsibility to comply with any other applications.	
Operator: ConocoPhillips Company OGRID #: 217817	OIL CONS. DIV DIST. 3
Address: PO BOX 4289, Farmington, NM 87499	DEC 16 2016
Facility or well name: SCHLOSSER WN FEDERAL 3E - SOUTH TANK	DEC 10 2010
API Number:30-045-24120 OCD Permit Number:	
U/L or Qtr/QtrO Section27 Township28N Range11W	County: San Juan
Center of Proposed Design: Latitude <u>36.62859 •N</u> Longitude <u>-107.98774 •W</u>	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
2.	
Pit: Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management	Low Chloride Drilling Fluid ves no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC 0	
	Julei
String-Reinforced	I D' - ' - I - W - D
Liner Seams: Welded Factory Other Volume: bb	I Dimensions: L x w_ x D
3.	
■ Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 120 bbl Type of fluid: Produced Water	· · · · · · · · · · · · · · · · · · ·
Tank Construction material: Metal	
☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and auto	matic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other	
Liner type: Thicknessmil	HIFIED
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe En	vironmental Bureau office for consideration of approval.
5.	17 (19)
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and by	below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 10 institution or church)	
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
Ч	



Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
7. Signs: Subsection C of 19.15.17.11 NMAC	-
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
s. Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Uariance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	☐ Yes ☐ No 図 NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
- Topographic map, visual inspection (certification) of the proposed site	
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	IMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.	
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Multi-well F Alternative Multi-well F Negreta Exequation and Removed Permanent Pit Below-grade Tank Multi-well F Negreta Exequation and Removed Permanent Pit Below-grade Tank Multi-well F Negreta Exequation and Removed Permanent Pit Below-grade Tank Multi-well F Permanent Pit Permanent	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	attacnea to the
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality									
	☐ Yes ☐ No								
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No								
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 									
Within a 100-year floodplain.	 ☐ Yes ☐ No ☐ Yes ☐ No 								
- FEMA map	LI TES LI NO								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC								
17. Operator Application Certification:									
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed to the best of my	ef.								
Name (Print): Title:									
Signature: Date:									
e-mail address: Telephone:									
10									
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)									
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 12	410616								
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)	410040								
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment) OCD Representative Signature: Approval Date:									
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 12 13 Title: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 11/23/2016									
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 19. Title: Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 11/23/2016	complete this								

Operator Closure Certification:	
Thereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and	
belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.	
Name (Print) Crystal Walker Title: Regulatory Coordinator	
Signature: Date: 12/15/2016	
Signature: Date: 12/15/2016	_
e-mail address: crystal.walker@cop.com Telephone: (505) 326-9837	

ConocoPhillips Company San Juan Basin: New Mexico Assets

Below Grade Tank Closure Report

Lease Name: Schlosser WN Federal 3E - South BGT

API No.: 30-045-24120

In accordance with Rule 19.15.17.13 NMAC, the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan Requirements:

 Prior to initiating any BGT closure, except in the case of an emergency, COPC will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or one week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner will be notified as soon as practical.

The surface owner was notified by email of the closure process and the notification is attached.

- Notice of closure will be given to the Division District Office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
 - a. Operators Name
 - b. Well Name and API Number
 - c. Location

Notification is attached.

3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of COP's approved Salt Water Disposal facilities or at a Division District Office approved facility.

All recovered liquids were disposed of at an approved SWD facility or an approved Division District Office facility within 60 days of cessation of operation.

 Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the Division District Office approved facilities, depending on the proximity of the BGT site: Envirotech Land Farm (Permit #NM-01-011), JFJ Land Farm % Industrial Ecosystems Inc. (Permit #NM-01-0010B), and Basin Disposal (Permit #NM-01-005).

Any sludge or soil required to be removed to facilitate closure was transported to Envirotech Land Farm (Permit # NM-01-011) and/or JFJ Landfarm % IEI (Permit# NM-01-0010B).

5. COPC will obtain prior approval from Division District Office to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division District Office. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan County Landfill operated by Waste Management under NMED Permit SWM-052426.

The below-grade tank was disposed of in a division-approved manner. The liner was cleaned per 19.15.35.8.C(1)(m) NMAC and disposed of at the San Juan County Regional Landfill located on CR 3100.

6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure, will be removed.

All on-site equipment associated with the below-grade tank was removed.

- 7. Following removal of the tank and any liner material, COPC will test the soils beneath the BGT as follows:
 - a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
 - b. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Table I of 19.15.17.13 and the results are attached.

8. If the Division District Office and/or COPC determine there is a release, COPC will comply with 19.15.17.13.C.3b.

A release was determined for the above referenced well.

9. Upon completion of the tank removal, pursuant to 19.15.17.13.C.3c, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and to prevent ponding.

The tank removal area passed all requirements of Table I of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material which included at least one foot of suitable material to establish vegetation at the site.

10. For those portions of the former BGT area no longer required for production activities, COPC will seed the disturbed area the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division District Office approved methods. COPC will notify the Division District Office when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- Vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
- Total percent plant cover of at least 70% of pre-disturbance levels (Excluding noxious weeds) OR
- Pursuant to 19.15.17.13.H.5d COPC will comply with obligations imposed by other applicable federal or tribal agencies in which there re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

Provision 10 will be accomplished pursuant to 19.15.17.H.5d and notification will be submitted upon completion.

11. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

The former BGT area is not required for production activities and reseeding will be completed per the procedure noted above.

Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division District Office Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner and Division District Office) (Attached)
- Backfilling & cover installation (See Report)
- Confirmation Sampling Analytical Results (Attached)
- Application Rate & Seeding techniques (See Report)
- Photo Documentation of Reclamation (Attached)

Walker, Crystal

From:

Walker, Crystal

Sent:

Thursday, May 12, 2016 6:56 AM

To:

Cory Smith; Fields, Vanessa, EMNRD; Flaniken, Mike (Mike_Flaniken@blm.gov);

Katherina Diemer (kdiemer@blm.gov)

Cc:

Farrell, Juanita R; GRP:SJBU Regulatory; Jones, Lisa; SJBU E-Team; Fincher, Shawn S

Subject:

BGT Notification: Schlosser WN Federal 3E

The subject well has **two** below-grade tanks that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name: Schlosser WN Federal 3E

API#: 3004524120

Location: O-27-28N-11W

Footages: 985' FSL & 1530' FEL

BGT 1 Location: 36.628588 / -107.987743

BGT 2 Location: 36.628849 / -107.987627

Operator: ConocoPhillips Company

Surface Owner: Federal

Estimated Date: Wednesday, May 18th, 2016

Estimated Time: 9:00AM

Thank you,
Crystal Walker
Regulatory Coordinator
ConocoPhillips Lower 48

T: 505-326-9837 | M: 505-215-4361 | crystal.walker@cop.com

Visit the new Lower 48 website: www.conocophillipsuslower48.com

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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

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

		, , , , , , , , , , , , , , , , , , ,	Rele	ease Notific	catio	n and Co	rrecti	ve A	ction				
						OPERA'	FOR						
		onocoPhillips				Contact Lisa Hunter							
		0 th St, Farm				Telephone No. (505) 258-1607							
Facility Na	Facility Name: Schlosser WN Federal 3E							Vell					
Surface Ov	Surface Owner Federal Mineral Owner						F -078673)		API No	. 3004524	120	
x decision					ATIO	N OF RE	LEASE			2 22.			
Unit Letter	Section 27	Township 28N	Range 11W	Feet from the 985		South Line	Feet from	Maria Sandraman		est Line	County San Juan		
				Latitude 30	6.62859	Longitud OF REL	e - <u>107.98</u>						
Type of Rele		oric BGT Re				Volume of	Release	Unkn			Recovered	Non	
Source of Re	elease Belo	ow Grade Ta	nk (BGT)	- South Tank		Date and I Unknown		currenc		Date and May 17, 2	Hour of Dis 2016	covery	
Was Immedi	ate Notice (Yes [No Not R	equired	If YES, To	Whom?						
By Whom?	N/A					Date and I	Iour N/A						
Was a Water	course Read		Yes 🛛 1	No		If YES, Volume Impacting the Watercourse. N/A							
If a Waterco	urse was Im	pacted, Descr	ibe Fully.*	*			7.						
		em and Reme sure activitie		n Taken.* mples taken resu	lting in	constituents	exceeded	standa	rds outli	ned by 19).15.17.13 N	MAC.	
Historic hy releases are The excava	drocarbon specified in ation was 4	NMOCD's	soil was f Guidelines 3' in dep	found during the for Leaks, Spill th. Analytical	ls and R	teleases and	he release	was as	ssigned a	ranking	score of 10		
I hereby cert regulations a public health should their or the enviro	ify that the i ill operators or the environment. In a	nformation gi are required to ronment. The lave failed to a	ven above o report ar acceptance adequately OCD accep	e is true and comp nd/or file certain r te of a C-141 repo investigate and r trance of a C-141	elease nort by the emediat	otifications a e NMOCD m e contaminati	nd perform arked as "I on that pos	correction corrections from the correction c	tive actio eport" do eat to gro	ns for rele es not reli und water	eases which eve the open s, surface wa	may er rator of iter, hu	ndanger liability man health
Signature:	Lot	-44-	-			Approved by				ATION	DIVISIO	<u>N</u>	
Printed Nam	e: Lisa Hu	nter									Э.		
Title: Field	Environme	ntal Specialis	t			Approval Da	e:		E	xpiration l	Date:		
E-mail Addr	ess: Lisa.Hı	unter@cop.co	m			Conditions of	Approval	:			Attached		

Date: December 8, 2016

Phone: (505) 258-1607

^{*} Attach Additional Sheets If Necessary

Animas Environmental Services, LLC



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)
	N	MOCD Action Level	*	100*	600*
S BGT SC-2	5/19/16	0.5	3,989	9,600	40
		5	4,270	6,120	NA
SB-1	6/7/16	8	3,054	2,410	NA
	_	9	NA	NA	NA
CD 2	6/7/16	3	3,462	7,420	NA
SB-2	6/7/16 -	5	2,780	7,130	NA
SB-3	6/7/16	2	1.3	24.4	NA
CD 4	6/7/16	3	0.9	NA	NA
SB-4	6/7/16 -	4	0.0	27.7	NA
CD F	C 17.11.C	4	3,164	6,740	NA
SB-5	6/7/16 -	5	57.1	<20.0	NA
CD C	6/7/46	3.5	3,389	14,200	NA
SB-6	6/7/16 -	5.5	2,262	2,000	NA
		O TOTAL CONTRACTOR OF THE PARTY			

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Leve		MOCD Action Level	*	100*	600*
CD 7	6/7/16	4	1,496	8,820	NA
SB-7	6/7/16 -	5	3,015	17,700	NA
CD 0	C/7/16	4	1.1	NA	NA
SB-8	6/7/16 -	5	0.0	<20.0	NA NA
CD O	6/7/46	4	0.0	NA	NA
SB-9	6/7/16 -	7	0.0	<20.0	NA
CD 40	6/7/46	4	0.0	NA	NA
SB-10	6/7/16 -	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 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

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

^{*}Action level determined by NMAC 19.15.17.13 Table 1.

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

			IVIG	y cili ough	HOVEIIIDEI	2010			
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 Act	tion 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

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.

^{*}Action level determined by NMAC 19.15.17.13 Table 1.

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

Warit of Rem

Elizabeth McNally, P.E.

Elizabeth V MeNdly

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

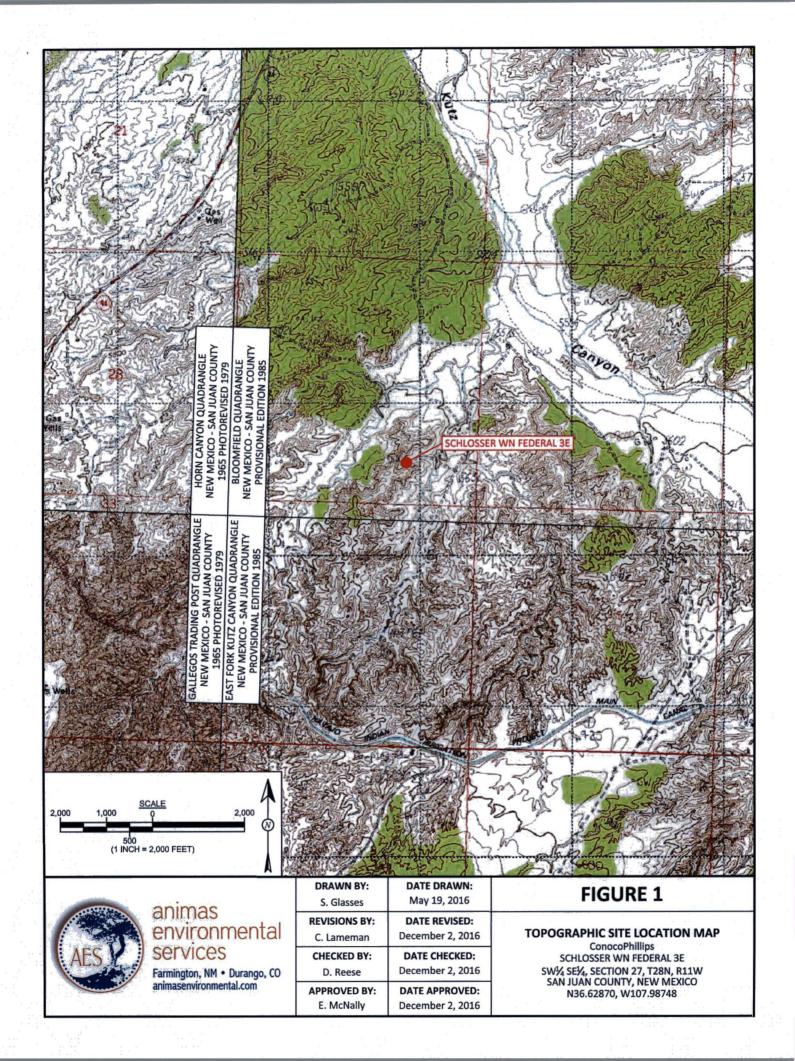
AES Field Sampling Report 060716

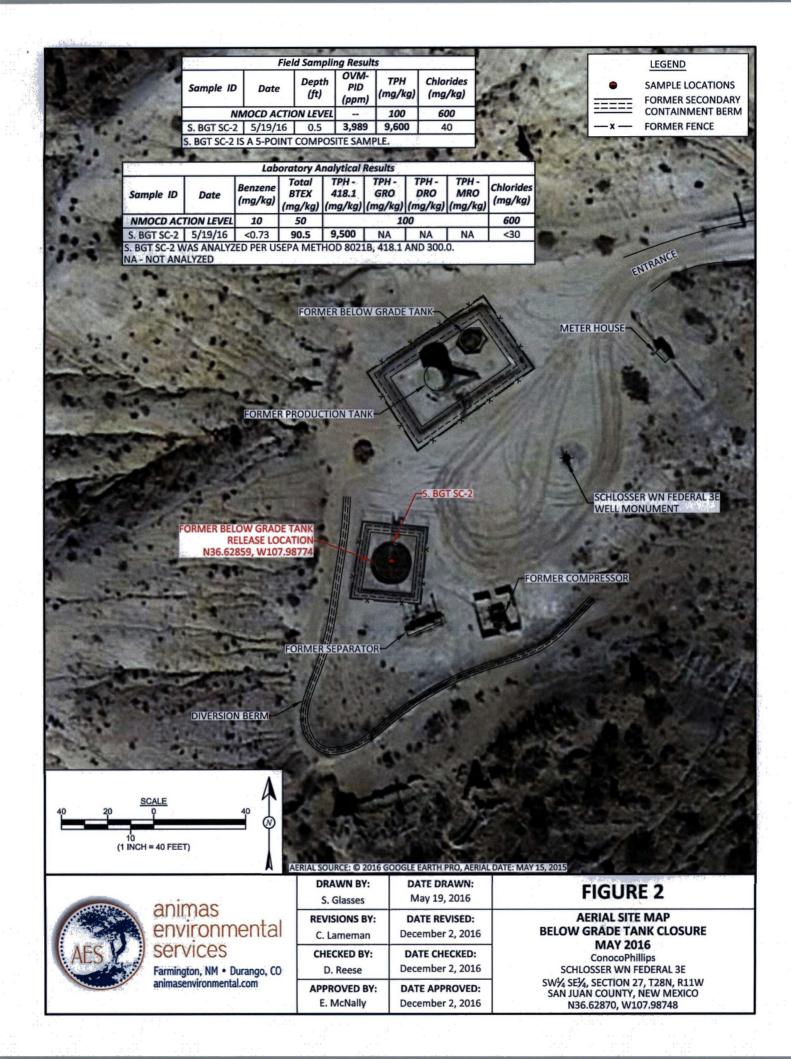
AES Field Sampling Report 111816 112316

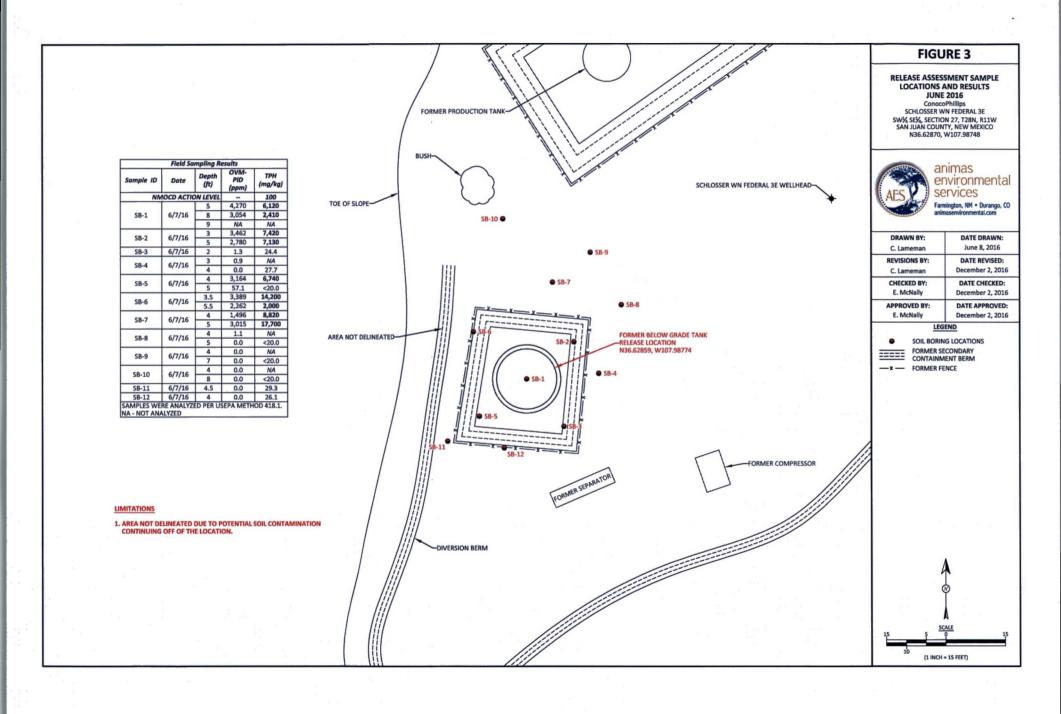
Lisa Hunter Schlosser WN Federal 3E BGT Closure, Release Assessment, and Final Excavation Report December 2, 2016 Page 8 of 8

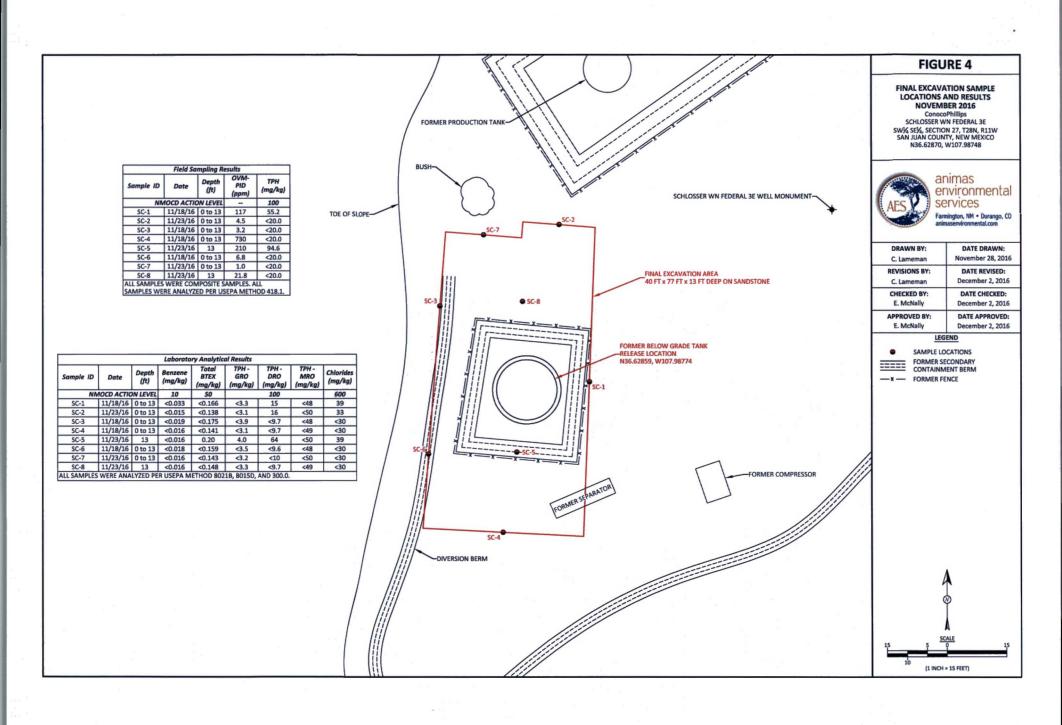
Hall Laboratory Analytical Report 1605987 Hall Laboratory Analytical Report 1611A76 Hall Laboratory Analytical Report 1611B60 Hall Laboratory Analytical Report 1611C75

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AES Field Sampling Report

Animas Environmental Services, LLC AES

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:

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 T	PH			
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		

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 T	PH					
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 PQL Not Analyzed Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

AES Field Sampling Report



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

Total Petroleum Hydrocarbons - USEPA 418.1

NA

Not Analyzed

PQL

Practical Quantitation Limit

Analyst:



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

and the second of the

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	том
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.
- 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 Page 1 of 4
- 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#: 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:

Batch ID: 25511

PQL

RunNo: 34490

Prep Date: 5/25/2016

Units: mg/Kg

HighLimit

Analysis Date: 5/25/2016

SeqNo: 1063785

RPDLimit

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-25511

Prep Date: 5/25/2016

SampType: Ics

TestCode: EPA Method 300.0: Anions

SeqNo: 1063786

Client ID: LCSS

Batch ID: 25511 Analysis Date: 5/25/2016

1.5

RunNo: 34490

Units: mg/Kg

Analyte

Result

Result

SPK value SPK Ref Val

93.5

LowLimit

HighLimit

%RPD

%RPD

Qual

Chloride

15.00

0

SPK value SPK Ref Val %REC LowLimit

90 110 **RPDLimit**

Page 2 of 4

PQL 14

%REC

Qualifiers:

to any the same

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

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: Prep Date:

PBS

Batch ID: 25438

20

RunNo: 34441

Units: mg/Kg

Analyte

5/23/2016

Analysis Date: 5/24/2016 PQL

SeqNo: 1061977

SPK value SPK Ref Val %REC LowLimit HighLimit

%RPD **RPDLimit** Qual

Petroleum Hydrocarbons, TR

Sample ID LCS-25438

Prep Date: 5/23/2016

ND

Result

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS

Batch ID: 25438

RunNo: 34441

SeqNo: 1061978

Units: mg/Kg

Analysis Date: 5/24/2016

SPK value SPK Ref Val %REC

LowLimit

HighLimit

Petroleum Hydrocarbons, TR

96

PQL 20

100.0

95.7

83.4

127

%RPD **RPDLimit** Qual

Sample ID LCSD-25438

Client ID: LCSS02

SampType: LCSD

Batch ID: 25438

TestCode: EPA Method 418.1: TPH

RunNo: 34441

SeqNo: 1061979

Units: mg/Kg

Analyte

Prep Date: 5/23/2016

Analysis Date: 5/24/2016

20

SPK value SPK Ref Val %REC LowLimit 0

HighLimit

%RPD

RPDLimit Qual

Petroleum Hydrocarbons, TR

Result **PQL**

100

100.0

101

83.4

127

5.60

20

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits B

RL

E Value above quantitation range

Page 3 of 4

P Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Qualifiers:

S

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits J

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	SampT	SampType: MBLK Batch ID: 25418 Analysis Date: 5/23/2016 Result PQL SPK value SPK ND 0.025 ND 0.050 ND 0.050 ND 0.10		Tes	tCode: E	PA Method	d 8021B: Volatiles				
Client ID: PBS	Batch	ID: 25	418	F	RunNo: 3	4421					
Prep Date: 5/20/2016	Analysis D	ate: 5/	23/2016	8	SeqNo: 1	061391	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025						3.9			
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	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS Batch ID: 25418					RunNo: 34421						
Prep Date: 5/20/2016	Analysis D	ate: 5/	23/2016	8	SeqNo: 1	061392	Units: mg/K	(g			
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.
- 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
- Page 4 of 4

- 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 Numb	per: 1605987		ReptNo: 1	
Received by/date: TA 05/20/16			The second secon	
Logged By: Lindsay Mangin 5/20/2016 8:00:00 A	AM	J-4-HADO		
Completed By: Lindsay Mangin 5/20/2016 1:22:35 F	PM .	ANNO		
Reviewed By: 10 05/20/1	6	000		
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 L	
10. VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Vials 🗹	
11, Were any sample containers received broken?	Yes	No 🗹	# of preserved	
12. Does paperwork match bottle labels?	- C	14.2°	bottles checked for pH:	
(Note discrepancies on chain of custody)	Yes 🗹	No L.	The state of the s	2 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 V	
Control & Medical Medical Service and Control Medical Medical Service (Medical Medical		WA FI	ini ea	
Person Notified: Date By Whom: Via:	eMail	Phone Fax	In Person	
Regarding:	envian	Prione Pax	in Person	
Client Instructions:				
17. Additional remarks:		3 A MANAGE OF THE ASS.		
18. Cooler Information				
Ccoler No Temp C Condition Seal Intact Seal No	Seal Date	Signed By		
1 1.0 Good Yes				

	A STATE OF THE PERSON NAMED IN	All of the second second	tody Record	Turn-Around I	ime:		6.5	k		H	LL	EN	VIF	RON	MEI	ATI	L
Olient:	Anima	s Enviror	nmental Services, LLC	A Standard	□ Rusi	h	. [7		AN	IAL	YSI	S L	AB	DRA	TOF	ZY
	and a			Project Name:			-			W	ww.ha	llenvi	ronme	ental.c	om		
Mailing Ad	ldress:	604 W	Pinon St.		HLOSSER W	/N FEDERAL 3E		49	01 H	awkin	s NE	- Alb	uquer	que, N	M 8710	9	
		Farmin	gton, NM 87401	Project #:	1	1		Te	el. 50	5-345	-3975	F	ax 50	5-345	-4107	. 1	
Phone #:	505-564	-2281									Ar	nalysi	s Rec	uest			
mail or F	ax#:	eskyles@	animasenvironmental.com	Project Manag	er:			- 2	1								
AVQC Pac X Standar	15.14	,	☐ Level 4 (Full Validation		E. Skyles					4							
Accreditat				Sampler: C. La	meman							11					
NELAP		□ Other		On Ice:	Yes	□ No						1 1					9
□ EDD (T	ype)			Sample Tempo	erature: /. ()	(c) (c)		73	0.0			1 1				1 1	5
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX - 8021B	TPH - EPA 418.1	Chlorides - 300.0	1 (50)							Air Bubbles (Y or N)
5/19/16	9:32	SOIL	S. BGT SC-2	1 -MeOH Kit/ 1 - 4 oz.	MeOH/ cool	-001	х	х	х							T	
					Loui			3									
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				- +	î r												
								-	24,							Ш	
									£ 1	_						+	
							- 1	A 7	4	1.19	100		+	+		+	
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							-				7			+		+	
late:	Time: L47 Time: 2024	Relinquishe Relinquishe	ale ,	Perceived by:	lat	Date Time Date Time	Sup USE Area	# 11 ervis RID 1: 2	0390 or: [: KG			hillips			- -		
119/14		samples subm	otto WOLL. nitled to Hall Environmental may be su	boontracted to other an	Act Coredited laborator	5/29/6 0800 nes. This serves as notice of			Sea to	Ne		data will	he clear	fv notate	d on the ar	ialvlical r	enort



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

OrderNo.: 1611A76

November 28, 2016

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

FAX

RE: COPC SCHLOSSER WN FEDERAL 3E

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

andyl

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 Qu	al Units	DF	Date Analyzed B	Batch
EPA METHOD 300.0: ANIONS			10	*	Analyst: L	_GT
Chloride	39	30	mg/Kg	20	11/22/2016 8:20:28 PM 2	28796
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst: 1	ГОМ
Diesel Range Organics (DRO)	15	9.7	mg/Kg	1	11/23/2016 10:38:20 AM 2	28807
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/23/2016 10:38:20 AM 2	28807
Surr: DNOP	91.7	70-130	%Rec	1	11/23/2016 10:38:20 AM 2	28807
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: N	NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	11/22/2016 12:18:51 PM 2	28762
Surr: BFB	95.9	68.3-144	%Rec	1	11/22/2016 12:18:51 PM 2	28762
EPA METHOD 8021B: VOLATILES					Analyst: N	NSB
Benzene	ND	0.033	mg/Kg	1	11/22/2016 12:18:51 PM 2	28762
Toluene	ND	0.033	mg/Kg	1	11/22/2016 12:18:51 PM 2	28762
Ethylbenzene	ND	0.033	mg/Kg	1	11/22/2016 12:18:51 PM 2	28762
Xylenes, Total	ND	0.067	mg/Kg	1	11/22/2016 12:18:51 PM 2	28762
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/22/2016 12:18:51 PM 2	28762

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

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 Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1611A76

Date Reported: 11/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project:

COPC SCHLOSSER WN FEDERAL 3E

Collection Date: 11/18/2016 1:10:00 PM

Lab ID:

1611A76-002

Matrix: SOIL

Received Date: 11/19/2016 8:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	,	*			Analy	st: LGT
Chloride	ND	30	mg/Kg	20	11/22/2016 8:32:53 F	M 28796
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analy	st: 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 RAI	NGE				Analy	st: 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					Analy	st: 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.

- * 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 Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1611A76

Date Reported: 11/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-6

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 Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	ND	30	mg/Kg	20	11/22/2016 9:10:07 F	M 28796
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analy	st: 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 RAM	NGE				Analy	st: 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					Analy	st: 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.

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 7 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

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 Prep Date: 11/21/2016

Batch ID: 28796 Analysis Date: 11/22/2016 RunNo: 38922

SeqNo: 1216481

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Result

PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

ND 1.5

PQL

1.5

Sample ID LCS-28796

Prep Date: 11/21/2016

Client ID: LCSS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Batch ID: 28796

RunNo: 38922

Units: mg/Kg

Analyte

Analysis Date: 11/22/2016

SPK value SPK Ref Val

%REC 0

SeqNo: 1216482

HighLimit LowLimit 90

%RPD

Qual

Chloride

Result 14

15.00

93.6

110

RPDLimit

Qualifiers:

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

Value above quantitation range

Page 4 of 7

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

%RPD

Prep Date: 11/22/2016

SeqNo: 1217613

Units: %Rec

Analyte

Analysis Date: 11/23/2016 PQL

HighLimit

RPDLimit Qual

Surr: DNOP

Result 7.4 SPK value SPK Ref Val %REC 10.00

73.9

LowLimit

LowLimit

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

PQL

10

SeqNo: 1217667

Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit

Qual

Diesel Range Organics (DRO)

44

50.00

87.8

62.6 70 %RPD **RPDLimit**

Surr: DNOP

Analyte

4.4

5.000

0 88.8 124 130

Sample ID MB-28807

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS

Batch ID: 28807

RunNo: 38942 SegNo: 1217668

Units: mg/Kg

Analyte

Prep Date: 11/22/2016 Result

Analysis Date: 11/23/2016

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD

RPDLimit Qual

Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)

ND ND

PQL 10 50

10.00

96.4

70

Sample ID LCS-28816

Prep Date: 11/22/2016

SampType: LCS

9.6

TestCode: EPA Method 8015M/D: Diesel Range Organics

130

Client ID: LCSS

Surr: DNOP

Batch ID: 28816 Analysis Date: 11/23/2016 RunNo: 38942

SeqNo: 1217831

Units: %Rec

%RPD

Page 5 of 7

Qual

RPDLimit

Analyte Surr: DNOP

Result 4.4 SPK value SPK Ref Val 5.000

%REC 87.4

LowLimit

70

HighLimit

130

Qualifiers:

S

- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

% Recovery outside of range due to dilution or matrix

- ND Not Detected at the Reporting Limit

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

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	e											
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 Rang	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	1/21/2016 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												
	CompTime: MRI V TostCode: EDA Mathed 200 ED. Cossilina Dance											
Sample ID MB-28828 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Rang	e											
Sample ID MB-28828 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Rang Client ID: PBS Batch ID: 28828 RunNo: 38913	е	2-2/2-										
	е											
Client ID: PBS Batch ID: 28828 RunNo: 38913	e RPDLimit	Qual										
Client ID: PBS Batch ID: 28828 RunNo: 38913 Prep Date: 11/21/2016 Analysis Date: 11/22/2016 SeqNo: 1216601 Units: %Rec		Qual										
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										
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 Surr: BFB 860 1000 85.9 68.3 144	RPDLimit	Qual										
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 Surr: BFB 860 1000 85.9 68.3 144 Sample ID LCS-28828 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	RPDLimit	Qual										
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 Surr: BFB 860 1000 85.9 68.3 144 Sample ID LCS-28828 SampType: LCS TestCode: EPA Method 8015D: Gasoline Rang Client ID: LCSS Batch ID: 28828 RunNo: 38913	RPDLimit	Qual										

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

Page 6 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611A76

28-Nov-16

Client:

Animas Environmental

CODC SCHI OSSED WAI EEDED AL 2E

Project: COPC	SCHLOSSER WN	FEDERAL	3E									
Sample ID MB-28762	SampType: N	IBLK	Tes	tCode: El	PA Method	8021B: Volat	tiles					
Client ID: PBS	Batch ID: 2	8762	F	RunNo: 3	8886							
Prep Date: 11/18/2016	Analysis Date:	11/21/2016		SeqNo: 1	215295	Units: mg/K	g					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND 0.02	5							1			
Toluene	ND 0.05	0										
Ethylbenzene	ND 0.05	0										
Xylenes, Total	ND 0.1	0										
Surr: 4-Bromofluorobenzene	1.0	1.000		99.8	80	120						
Sample ID LCS-28762	SampType: L	.cs	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch ID: 2	8762	. F	RunNo: 3	8886							
Prep Date: 11/18/2016	Analysis Date:	11/21/2016	5									
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.1 0.02	1.000	0	106	75.2	115						
Toluene	0.99 0.05	1.000	0	99.0	80.7	112						
Ethylbenzene	0.96 0.05	1.000	0	96.1	78.9	117						
Xylenes, Total	2.8 0.1	3.000	0	94.5	79.2	115						
Surr: 4-Bromofluorobenzene	1.0	1.000		104	80	120						
Sample ID MB-28828	SampType: N	IBLK	Tes	tCode: El	PA Method	8021B: Volat	iles					
Client ID: PBS	Batch ID: 2	8828	F	RunNo: 3	8913							
Prep Date: 11/21/2016	Analysis Date:	11/22/2016	8	SeqNo: 1	216628	Units: %Red	:					
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: L	cs	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch ID: 2	8828	F	RunNo: 3	8913							
Prep Date: 11/21/2016	Analysis Date:	11/22/2016	8	SeqNo: 1	216629	Units: %Red	•					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: 4-Bromofluorobenzene	1.1	1.000		107	80	120		2				

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

 \mathbf{B} Analyte detected in the associated Method Blank

Value above quantitation range E

J Analyte detected below quantitation limits Page 7 of 7

P Sample pH Not In Range

RLReporting Detection Limit

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	r: 1611A76		RcptNo: 1
Received by/date:			
Logged By: Anne Thorne 11/19/2016 8:15:00 A	M	an Ilm	
Completed By: Anne Thorne 11/21/2016		an Il	
Reviewed By: A 11/21/14		una ju	
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			
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 🗹	#-4
	- F3		# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 or >12 unless note
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:		Phone Fax	☐ In Person
Regarding:		Accessed to the second	
Client Instructions:		and the same of th	
17. Additional remarks:			
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 3.2 Good Yes			" g" s

Ch	ain-o	f-Cust	tody Record	Turn-Around Time:				١,		н	AI		=N	VT	DC	M	ME	NT	AL	
Client:	Animas	Enviro	nmental Services, LLC	☐ Standard	X Rusi	n 3 Dav	-	Ħ	_										ORY	
				Project Name:												tal.co		•••		ı
Mailing Ad	dress:	604 W	Pinon St.	COPC SCI	HLOSSER W	N FEDERAL 3E		49	01 F								M 87	109		
		Farmin	gton, NM 87401	Project #:			1	Te	el. 50	05-3	45-3	975	F	ах	505	-345	4107	,		
Phone #:	505-564		X.					4. 486.					alysi	s Re	eque	est				
Email or Fa	ax#:	clamema	an@animasenvironmental.	Project Manag	jer:												\neg	T	T	П
QA/QC Pac	kage:				C. Lamema	ME. NoNally						5 5								
X Standar	d		☐ Level 4 (Full Validation)			,	õ	, .									- 1			
Accreditati				Sampler: C. L.			M	25									- 1			
□ NELAP		□ Other		On Ice:	☑ Yes	□ No	8	Ē	~								- 1			2
□ EDD (T	ype)			Sample Temp	erature: 6	12	0	*	ğ											্
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8015D (GRO / DRO / MRO)	8021B (BTEX + MPBE)	300.0 - (Chlorides)											Air Bubbles (Y or N)
11/18/16	9:25	SOIL	SC-1	2 - 4 oz. MeoH Kit	cool/ MeoH	7001	х	х	х								\neg			П
11/18/16	13:10	SOIL	SC-3	2 - 4 oz. MeoH Kit	cool/ MeoH	702	х	х	х									\top	\top	\forall
11/18/16	13:18	SOIL	SC-6	2 - 4 oz. MeoH Kit	cool/ MeoH	703	х	х	х									工		
						* *					-			٠,			\dashv	+	_	Н
							\vdash		_		-						\dashv	+	+	\forall
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			*							-						Н	_	+	+	+
		200															\dashv	+	+	+
				*								7 100							\top	\top
Date:	Time:	Relinquish	oile,	Received by: Date Time				# 1 ervis	039 sor:	ll to 0 0486 Dust	у Ма	co Pi	hillip		Zul	w/	' Qu	ust	ÎM S	
leln.	Time:	Relinquish	otiuli) Alla	A A						Lisa		er				,				
lf If	necessary, s	amples subm	itted to Hall Environmental may be sub	contracted to other	ccredited laborator	ies. This serves as notice o	f this p	ossibil	itv. A	nv sub	-contr	acted o	data w	ill be c	learly	notate	d on the	e analy	tical rep	ort



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

OrderNo.: 1611B60

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

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 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	yst: LGT
Chloride	ND	30	mg/Kg	20	11/22/2016 11:58:53	AM 28812
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analy	yst: 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 RA	NGE				Analy	yst: 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					Analy	yst: 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.

- 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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

PQL

RunNo: 38932

Prep Date: 11/22/2016

Analysis Date: 11/22/2016

SeqNo: 1216811

Units: mg/Kg

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-28812

Prep Date: 11/22/2016

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 28812 Analysis Date: 11/22/2016

PQL

RunNo: 38932

Units: mg/Kg

SeqNo: 1216812

RPDLimit

Analyte

%REC 90.7

SPK value SPK Ref Val 15.00

HighLimit 110

Qual

Chloride

%RPD

%RPD

14 1.5 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- 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
- Analyte detected below quantitation limits

Page 2 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611B60

28-Nov-16

Client:

Animas Environmental Services

Project:	COPC SCHLOSS	SER WN	FEDERAL	3E						
Sample ID 1611B60	-001AMS Sam	рТуре: М	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	a Ya
Client ID: SC-4	Ва	tch ID: 28	806	F	RunNo: 3	8908				
Prep Date: 11/22/2	016 Analysis	Date: 1	1/22/2016	8	SeqNo: 1:	216202	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 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 Sam	рТуре: М	SD	Tes	tCode: El	A Method	8015M/D: Di	esel Rang	e Organics	12
Client ID: SC-4	Ba	tch ID: 28	806	F	RunNo: 3	8908				
Prep Date: 11/22/2	016 Analysis	Date: 1	1/22/2016	8	SeqNo: 1:	216203	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 46	9.9	49.55	4.607	82.8	51.6	130	10.4	20	
Surr: DNOP	4.1		4.955	e	83.2	70	130	0	0	
Sample ID LCS-288	06 Sam	pType: LC	cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	21
Client ID: LCSS	Ва	tch ID: 28	806	F	RunNo: 3	8908				
Prep Date: 11/22/2	016 Analysis	Date: 1	1/22/2016	8	SeqNo: 1:	216204	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 40	10	50.00	0	80.9	62.6	124	8-1		23
Surr: DNOP	3.8		5.000		75.9	70	130			
Sample ID MB-2880	06 Sam	рТуре: МІ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	a 2
Client ID: PBS	Ba	tch ID: 28	806	F	RunNo: 3	3908				
Prep Date: 11/22/2	016 Analysis	Date: 1	1/22/2016	SeqNo: 1216205 Units: mg/Kg						
Analyte	Result			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 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.
- 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

Page 3 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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

Result

%REC

Analyte

Analysis Date: 11/22/2016

SeqNo: 1216601

Units: mg/Kg

144

HighLimit

Qual

Gasoline Range Organics (GRO)

PQL 5.0

5.0

%RPD **RPDLimit**

Surr: BFB

ND 860

1000

1000

SPK value SPK Ref Val

85.9

68.3

LowLimit

Sample ID LCS-28828

Client ID: LCSS

SampType: LCS Batch ID: 28828 TestCode: EPA Method 8015D: Gasoline Range

RunNo: 38913

SeqNo: 1216602

HighLimit

Units: mg/Kg

%RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Prep Date: 11/21/2016

Analysis Date: 11/22/2016 **PQL** Result

26

910

SPK value SPK Ref Val %REC 25.00 103

LowLimit 74.6 91.4 68.3

123 144

Qualifiers:

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611B60

28-Nov-16

Client:

Animas Environmental Services

Project:

COPC SCHLOSSER WN FEDERAL 3E

Sample ID MB-28828	SampT	ype: ME	BLK	Tes	tCode: El	tiles		ir di		
Client ID: PBS	Batch	Batch ID: 28828 RunNo: 38913								
Prep Date: 11/21/2016	Analysis D	ate: 11	1/22/2016	SeqNo: 1216628 Ur			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025		* * * * * * * * * * * * * * * * * * * *	× 0 × 0					
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	SampT	ype: LC	s	Tes	PA Method	8021B: Vola	tiles			
Client ID: LCSS	Batch	n ID: 28	828	F	RunNo: 3	8913				
Prep Date: 11/21/2016	Analysis D)ate: 11	1/22/2016	8	SeqNo: 1	216629	Units: mg/k	(g		
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.
- 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

Page 5 of 5

- 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: 1	61 1E	360	, , , , ,	RcptNo:	1
Received by/date: 11/22	(16				,	
Logged By: Anne Thorne	11/22/2016 7:50:00 AM			ane Il	_	
Completed By: Anne Thorne	11/22/2016 7:56:15 AM			Aone Sh Aone Sh	_	ļ
Reviewed By: aJ	11/22/16			0.000		
Chain of Custody					y	
1. Custody seals intact on sample bottles?	· · · · · · · · · · · · · · · · · · ·	Yes		No 🗆	Not Present	
2. Is Chain of Custody complete?	,	Yes	V	No 🗆	Not Present	
3. How was the sample delivered?	1	Cour	er			
Log In						
4. Was an attempt made to cool the samples?		Yes	V	No 🗆	NA 🗆	
5. Were all samples received at a temperature	of >0° C to 6.0°C	res .	V	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes	V	No 🗆		
7. Sufficient sample volume for indicated test(s	s)?	Yes	V	No 🗆		
8. Are samples (except VOA and ONG) proper	rly 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 broke	en?	Yes		No 🗹	# of preserved	
- 18-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Yes		No 🗆	bottles checked for pH:	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	·	res	V	, NO L		r >12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes	V	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?		Yes	V	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	,	Yes	V	No 🗆	Checked by:	
Special Handling (if applicable)						
16. Was client notified of all discrepancies with	this order?	Yes		No 🗆	NA 🗹	
Person Notified:	Date			*** * * * * * * * * * * * * * * * * *		1
By Whom:	Via:	eMa	il 🗇	Phone Fax	☐ In Person	
Regarding:						
Client Instructions:						
17. Additional remarks:					¥	
18. Cooler Information Cooler No Temp ℃ Condition S	eal Intact Seal No Se	al Da	te I	Signed By	1	
1 1.0 Good Ye		ai D	:	Signed By	1	
Carrier in mark the law is a constant of the			i		1	

Ch	ain-o	of-Custody Record						HALL ENVIRONMENT							TAI			
Client:	Animas	Enviror	nmental Services, LLC	☐ Standard	X Rus	h: Same Day		Ħ	_		201 0 35					RAT		
				Project Name:										nenta				• •
Mailing Ad	dress:	604 W	Pinon St.	COPC SC	HI OSSER W	/N FEDERAL 3E		49	01 H		1 10					B7109		
			gton, NM 87401	Project #:	ILOCOLI (I	TO LIVE OF					-3975			505-3				
Phone #:	505-564		3.00.1, 1.111.07.10.					1		0 0 10		Contract to the contract of		eques				
Email or Fa			n@animasenvironmental.c	Project Manag	jer:									7 1				
QA/QC Pac	kage:				C. Lamema	n										-		
X Standar	d		☐ Level 4 (Full Validation)		4		Q			-								
Accreditati	on:	- 01		Sampler: C. L.	ameman		/ MRO)			1								
□ NELAP □ EDD (T	vne)	□ Other		On ice: Sample Temp		□-No	/ DRO		(8)									î
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8015D (GRO / D	8021B (BTEX)	300.0 - (Chlorides)	1 1 1			200					Air Bubbles (Y or N)
11/18/16	16:00	SOIL	SC-4	2 - 4 oz. MeoH Kit	cool/ MeoH	-001	X	X	х									
		5		MOOI I KIL	1110011													
-	d1 								·			1	1.5	\Box				
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121/16	1820	amples subn	Mustu Walts Unn 0750 Iples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice												nort			



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 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

Lab Order 1611C75

Date Reported: 11/30/2016

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 Qua	al 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 RAN	GE ORGANIC	3			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 RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	11/28/2016 11:12:00 AM	1 28848
Surr: BFB	90.8	68.3-144	%Rec	1	11/28/2016 11:12:00 AM	1 28848
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.015	mg/Kg	1	11/28/2016 11:12:00 AM	1 28848
Toluene	ND	0.031	mg/Kg	1	11/28/2016 11:12:00 AM	1 28848
Ethylbenzene	ND	0.031	mg/Kg	1	11/28/2016 11:12:00 AM	1 28848
Xylenes, Total	ND	0.061	mg/Kg	1	11/28/2016 11:12:00 AM	1 28848
Surr: 4-Bromofluorobenzene	93.7	80-120	%Rec	1	11/28/2016 11:12:00 AM	1 28848

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

- 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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1611C75

Date Reported: 11/30/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: C

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		2	2			Analyst:	LGT
Chloride	39	30		mg/Kg	20	11/30/2016 1:31:53 AM	28906
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				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	E 2					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.

- 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 Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1611C75

Date Reported: 11/30/2016

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 Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	ND	30	mg/Kg	20	11/30/2016 1:44:18 A	M 28906
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analy	st: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/29/2016 6:20:40 P	M 28868
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/29/2016 6:20:40 P	M 28868
Surr: DNOP	92.7	70-130	%Rec	1	11/29/2016 6:20:40 P	M 28868
EPA METHOD 8015D: GASOLINE RAN	IGE				Analy	st: 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					Analy	st: 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.

- * 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1611C75

Date Reported: 11/30/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-8

Project: COI

COPC Schlosser WN Federal 3E

Collection Date: 11/23/2016 2:36:00 PM

Lab ID: 1611

1611C75-004

Matrix: MEOH (SOIL) Received Date: 11/26/2016 12:20:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	ND	30	mg/Kg	20	11/30/2016 1:56:42 A	M 28906
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/29/2016 6:46:55 P	M 28868
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/29/2016 6:46:55 P	M 28868
Surr: DNOP	94.7	70-130	%Rec	1	11/29/2016 6:46:55 P	M 28868
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: 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					Analy	st: 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.

- 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 Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611C75

30-Nov-16

Client:

Animas Environmental

Project:

COPC Schlosser WN Federal 3E

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 28906

RunNo: 39040

Sample ID MB-28906

Prep Date: 11/29/2016

Analysis Date: 11/29/2016

1.5

SeqNo: 1221189

Units: mg/Kg

Qual

Analyte Chloride

Result **PQL** ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

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

%RPD

Qual

Page 5 of 8

1.5

14

15.00

Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

Analyte detected below quantitation limits

Value above quantitation range

Sample pH Not In Range

Reporting Detection Limit

E

J

P

RL

110

RPDLimit

94.5

Chloride

PQL

SPK value SPK Ref Val

%REC

HighLimit

Analyte

Qualifiers: Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

H

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611C75

30-Nov-16

Client:

Animas Environmental

Project:

Surr: DNOP

COPC Schlosser WN Federal 3E

9.1

Troject.	SCHIOSSEI WI	V I CUCIA	ai JL							
Sample ID LCS-28868	SampTy	pe: LCS	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 2886	68	F	RunNo: 3	9006				
Prep Date: 11/28/2016	Analysis Da	ate: 11/	29/2016	8	SeqNo: 1	220403	Units: mg/K	g		
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	2	12.	
Surr: DNOP	4.6		5.000		92.1	70	130	237 0	· ·	
Sample ID MB-28868	SampTy	pe: MBL	_K	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 288 6	68	F	RunNo: 3	9006				
Prep Date: 11/28/2016	Analysis Da	ite: 11/2	29/2016	8	SeqNo: 1	220404	Units: mg/K	g		
Analyte	Result	PQL :	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10		*	6					
Motor Oil Range Organics (MRO)	ND	50								

91.0

130

70

10.00

- 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
- Page 6 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611C75

30-Nov-16

Client:

Animas Environmental

Project:

COPC Schlosser WN Federal 3E

Sample ID MB-28848	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	ID: 28	848	F	tunNo: 3	8984						
Prep Date: 11/23/2016	Analysis D	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	1.50	91.5	68.3	144	9 19 3				

Sample ID LCS-28848	SampTy	pe: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batch	ID: 28	848	R	RunNo: 3	8984				
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)	soline 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.
- 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

Page 7 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611C75

30-Nov-16

Client:

Animas Environmental

Project:

COPC Schlosser WN Federal 3E

Sample ID MB-28848	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	1D: 28	848	F	RunNo: 3	8984							
Prep Date: 11/23/2016	Analysis D	ate: 11	1/28/2016	8	SeqNo: 1	219341	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025		25		34		-					
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	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		15		
Client ID: LCSS	Batch	ID: 28	848	F	RunNo: 3	8984						
Prep Date: 11/23/2016	Analysis D	ate: 11	/28/2016	8	SeqNo: 1	Units: mg/K	s: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	mit 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.
- 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

Page 8 of 8

- 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

Work Order Number: 1611C75 RcptNo: 1 Animas Environmental Client Name Received by/date: Logged By: Lindsay 11/26/2016 12:20:00 PM Completed By: Lindsay Mangin 11/28/2016 7:35:52 AM Reviewed By: Chain of Custody No 🗌 Not Present V Yes 1. Custody seals intact on sample bottles? Yes V No 🗌 Not Present 2 Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA Yes V No 🗌 4. Was an attempt made to cool the samples? No 🗆 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes V Sample(s) in proper container(s)? No 🗌 Yes V 7. Sufficient sample volume for indicated test(s)? No 🗌 Yes V 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes No V 9. Was preservative added to bottles? No VOA Vials Yes No 🗌 10.VOA vials have zero headspace? Yes 🗆 No V 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? Yes V (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes V 13 Are matrices correctly identified on Chain of Custody? Yes V No 🗌 14, Is it clear what analyses were requested? No 🗌 Checked by Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date By Whom: 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 Good

A THE RESERVE AS A STREET	CONTRACTOR OF THE PARTY OF THE	The Cold Cold Cold Cold Cold Cold Cold Cold	tody Record	Turn-Around						700.00	Andrew Art	The state of the s	200	TS-T	The Party of the Party	1EN	The state of the s	
Cilent.	Allinia	S ETIVITO	ililielitai Gelvices, LLC	☐ Standard Project Name		h: 3 Day Turn.			d	7.7.7		1		200	BO al.con	RAT	Ю	RY
Mailing Ad	dress:	604 W	Pinon St.	COPC SC	HLOSSER W	/N FEDERAL 3E		49	01 H	awkir	s NE	- Al	buqu	erque	e, NM	8710	9	
		Farmin	gton, NM 87401	Project #:			17		10 10 10 1	gar a	-397	80 60	26.005-01.	10.00	345-4		100	9,
Phone #:	505-564	-2281				Additional Parties					А	nalys	is R	eque	st			
Email or Fa	ax#:	clamema	an@animasenvironmental.	Project Manag	ger:				acted.				W. P. W					
QA/QC Pac X Standar	4.00		☐ Level 4 (Full Validation	C. Lameman														
Accreditati	on:			Sampler: C. Lameman														
□ NELAP		□ Other		On Ice:	X Yes	□ No	ò		-									2
□ EDD (T	ype)			Sample Temp	erature: 2	3	6		des									٥
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	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	×									
11/23/16	15:55	SOIL	SC-5	2 - 4 oz. MeoH Kit	cool/ MeoH	-00Z	X	X	X							10.5		
11/23/16	11:06	SOIL	SC-7	2 - 4 oz. MeoH Kit	cool/ MeoH	-003	x	x	×						200			
11/23/16	14:36	SOIL	SC-8	2 - 4 oz. MeoH Kit	MeoH	-204	x	X	×									
																5		
												+	-				+	
Date:	Time: 1438 Time: 1524	Relinquish Relinquish	-	Received by:	Remarks: Bill to Conoco Phillips WO # 10390486 Supervisor: Dusty Mars USERID: KGARCIA Area: 2 Ordered by: Lisa Hunter													

