

District I
1625 N. 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.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure 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 alternative method
☐ Modification to an existing permit/or registration
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, 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 result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538 / 217817
Address: PO BOX 4289, Farmington, NM 87499
Facility or well name: ANGEL PEAK 29
API Number: 30-04525698 OCD Permit Number: _____
U/L or Qtr/Qtr I Section 10 Township 28N Range 11W County: San Juan
Center of Proposed Design: Latitude 36.67463 °N Longitude -107.98429 °W NAD: ☐ 1927 ☒ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

OIL CONS. DIV DIST. 3
FEB 17 2017

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 ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl 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 automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness 45 mil ☐ HDPE ☐ PVC ☒ Other LLDPE

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify _____

gls

6.

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

8.

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:

- ☐ Variance(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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

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
☒ 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
☒ NA

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

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.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

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 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 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 NMAC
- ☐ 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 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

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 documents are 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 19.15.17.9 NMAC 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: _____

12.

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 attached.

- ☐ 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
☐ Liner Specifications 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 H₂S, 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

13.

Proposed Closure: 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit
☐ Alternative
- 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

14.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the 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

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 source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

16.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, 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 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 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 be achieved)
- ☐ 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

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 belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.

OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ Approval Date: 2/23/2017

Title: Environmental Specialist 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ Closure Completion Date: 1/4/2017

20.

Closure Method:

- ☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
- ☐ If different from approved plan, please explain.

21.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☒ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☒ Confirmation Sampling Analytical Results (if applicable)
- ☐ Waste Material Sampling Analytical Results (required for on-site closure)
- ☐ Disposal Facility Name and Permit Number
- ☒ Soil Backfilling and Cover Installation
- ☒ Re-vegetation Application Rates and Seeding Technique
- ☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude °N Longitude °W NAD: ☐ 1927 ☐ 1983

Operator Closure Certification:

I hereby 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) Christine Brock Title: Regulatory Specialist

Signature: Christine Brock Date: 2/15/17

e-mail address: christine.brock@cop.com Telephone: (505) 326-9775

Burlington Resources Oil & Gas Company
San Juan Basin: New Mexico Assets
Below Grade Tank Closure Report

Lease Name: Angel Peak #29

API No.: 30-045-25698

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:

1. Prior to initiating any BGT closure, except in the case of an emergency, BR 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.

2. Notice of closure will be given to the District Division 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 District Division approved facility.

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

4. Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the District Division 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. BR will obtain prior approval from District Division 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 District Division. 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, BR 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 District Division and/or BR determine there is a release, BR 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, BR 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 District Division-approved methods. BR will notify the District Division 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 BR 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 done 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 District Division Form C-144. The Report will include the following:

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

From: Busse, Dollie L
Sent: Thursday, December 29, 2016 10:18 AM
To: 'Smith, Cory, EMNRD'; Vanessa.Fields@state.nm.us; 'Brandon.Powell@state.nm.us'
Cc: Whitney Thomas - BLM (l1thomas@blm.gov); Maureen Joe (mjoe@blm.gov); Payne, Wendy F; Trujillo, Fasho D; Hunter, Lisa; Spearman, Bobby E; Walker, Crystal; Brock, Christine
Subject: Angel Peak 29 - 72 Hour BGT Closure Notification
Importance: High

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: **Wednesday, January 4, 2017 at approximately 10:00 a.m.**

The subject well has a below-grade tank 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: Angel Peak 29
API#: 3004525698
Location: Unit I (NESE), Section 10, T28N, R11W
Footages: 1793' FSL & 593' FEL
Operator: Burlington Resources **Surface Owner:** BLM (Federal Lease #SF-047017-A)
Reason: P&A'd 8/23/2016

Dollie L. Busse
Regulatory Technician
ConocoPhillips Company
505-324-6104
505-787-9959
Dollie.L.Busse@cop.com

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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607	
Facility Name: Angel Peak 29	Facility Type: Gas Well	
Surface Owner BLM	Mineral Owner BLM (Sf-047017-A)	API No. 3004525698

LOCATION OF RELEASE

Unit Letter I	Section 10	Township 28N	Range 11W	Feet from the 1793	North/South Line South	Feet from the 593	East/West Line East	County San Juan
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Latitude **36.67463** Longitude **-107.98429**

NATURE OF RELEASE

Type of Release Hydrocarbon Historic	Volume of Release Unknown	Volume Recovered 0
Source of Release Production Tank	Date and Hour of Occurrence 01/04/17	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD (Cory Smith)	
By Whom? Lisa Hunter	Date and Hour 01/05/17 @ 8:46 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Historic contamination was discovered during a facility strip of a P&A well, under the production tank. The contamination was known to be >30 yards at time of notification.		
Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during the BGT closure and P&A activities for the subject well. ConocoPhillips contracted environmental contractor to assess via test holes with on-site excavating equipment. Excavation began 01/09/17. The final excavation was 86' x 112' x 10-12' in depth. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 		OIL CONSERVATION DIVISION
Printed Name: Lisa Hunter		Approved by Environmental Specialist:
Title: Field Environmental Specialist	Approval Date:	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: February 7, 2017 Phone: (505) 258-1607		

* Attach Additional Sheets If Necessary



January 31, 2017

Lisa Hunter
ConocoPhillips
San Juan Business Unit
(505) 326-9525

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

**RE: Below Grade Tank Closure, Release Assessment and Final Excavation Report
Angel Peak 29
San Juan County, New Mexico**

Dear Ms. Hunter:

On January 4 through 6, 11, 13, 17, and 18, 2017, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, a release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Angel Peak 29, located in San Juan County, New Mexico. An initial release assessment was completed on January 6, 2017, and the final excavation was completed by COPC contractors prior to AES's arrival on location on January 17, 2017.

1.0 Site Information

1.1 Location

Site Name – Angel Peak 29

Legal Description – SE¼ NE¼, Section 10, T28N, R11W, San Juan County, New Mexico

Well Latitude/Longitude – N36.67445 and W107.98419, respectively

BGT Latitude/Longitude – N36.67463 and W107.98429, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, January 2017

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

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

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. The location is approximately 110 feet higher than Kutz Canyon Wash, which is located 0.6 miles to the southwest. 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 NMOCD BGT closure plan application (Form C-144) filed June 27, 2016, the most stringent sample result criteria were applied to this BGT; these criteria apply to sites with a depth to groundwater of 0 to 50 feet bgs.

1.3 BGT Closure Assessment

AES was initially contacted by Lisa Hunter, COPC representative, on December 29, 2016, and on January 4, 2017, Corwin Lameman of AES traveled to the location. Soil sampling consisted of collection of one 5-point soil sample (BGT SC-1) composited from four perimeter locations and one center location from below the BGT liner at the BGT footprint. Soil sample results for BGT SC-1 were above the action levels, and a release was confirmed. BGT results are included on Figure 2.

1.4 Release Assessment and Excavation Clearance

On January 5 and 6, 2017, AES personnel returned to the location to complete the release assessment field work. The assessment included collection and field sampling of 46 soil samples from 17 assessment trenches (TH-1 through TH-17). Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On January 11, 13, 17, and 18, 2017, AES returned to the location to collect confirmation soil samples of the excavation extents. The field sampling activities included collection of 20 confirmation soil samples (SC-1 through SC-20) from the walls and base of the excavation. The area of the final excavation measured approximately 86 feet by 112 feet by 10 to 12 feet in depth. Note that the depth of the excavation was limited due to a confining sandstone unit at 10 to 12 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

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

2.1.3 Chlorides

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

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis (BGT SC-1, SC-1 through SC-7, and SC-12 through SC-20) were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B or 8260B;
- 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.

In addition, soil sample BGT SC-1 was laboratory analyzed for:

- TPH per USEPA Method 418.1.

2.3 Field and Laboratory Analytical Results

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

Table 1. Soil Field VOCs, TPH, and Chloride Results
Angel Peak 29 BGT Closure, Release Assessment and Final Excavation
January 2017

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (418.1) (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
		<i>NMOCD Action Level</i>	<i>--*</i>	<i>100*</i>	<i>600*</i>
BGT SC-1	1/4/17	0.5	7.1	95.8	40
TH-1	1/5/17	4	364	2,110	NA
		8	3.9	48.5	NA
TH-2	1/5/17	2	33.2	1,960	NA
		4	445	>3,200	NA
		6	8.0	61.4	NA
TH-3	1/5/17	2	10.2	1,210	NA
		6	41.3	230	NA
TH-4	1/5/17	2.5	0.0	<20.0	NA
		4	11.5	1,950	NA
		5.25	77.8	153	NA
TH-5	1/5/17	2	0.0	NA	NA
		4	0.0	<20.0	NA
		5.75	0.0	<20.0	NA
TH-6	1/5/17	2	0.0	NA	NA
		4	0.0	<20.0	NA
		6	0.0	<20.0	NA
TH-7	1/5/17	2	0.0	<20.0	NA
		4	8.6	1,800	NA
		5.75	7.3	150	NA
TH-8	1/5/17	4	0.0	<20.0	NA

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (418.1) (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
		<i>NMOCD Action Level</i>	<i>--*</i>	<i>100*</i>	<i>600*</i>
		6	0.0	<20.0	NA
TH-9	1/5/17	2	2.5	658	NA
		4	188	2,520	NA
		5.75	810	1,320	NA
TH-10	1/6/17	2	0.0	<20.0	NA
		4	0.0	<20.0	NA
		6	238	1,560	NA
TH-11	1/6/17	4	0.0	<20.0	NA
TH-12	1/6/17	2	56.1	555	NA
		4	314	748	NA
		6	829	1,940	NA
TH-13	1/6/17	2	0.0	<20.0	NA
		4	0.1	43.7	NA
		6	101	2,060	NA
TH-14	1/6/17	4	0.0	NA	NA
		5.75	0.0	<20.0	NA
TH-15	1/6/17	2	22.6	NA	NA
		4	193	NA	NA
		6	994	>3,200	NA
		7	132	NA	NA
TH-16	1/6/17	2	5.7	NA	NA
		4	43.8	NA	NA
		6	195	1,130	NA
TH-17	1/6/17	2	0.0	<20.0	NA
		4	0.0	NA	NA
		5	0.0	<20.0	NA
SC-1	1/11/17	10	0.3	35.1	NA
SC-2	1/17/17	2 to 8	37.9	106	NA

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (418.1) (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
<i>NMOCD Action Level</i>			<i>--*</i>	<i>100*</i>	<i>600*</i>
SC-3	1/17/17	2 to 8	0.5	32.0	NA
SC-4	1/17/17	2 to 8	0.0	26.0	NA
SC-5	1/11/17	2 to 10	4.8	98.4	NA
SC-6	1/13/17	2 to 10	45.1	264	NA
SC-7	1/18/17	2 to 10	6.5	86.4	NA
SC-8	1/11/17	10	12.5	200	NA
SC-9	1/11/17	8	6.5	181	NA
SC-10	1/11/17	10	159	457	NA
SC-11	1/11/17	10	139	453	NA
SC-12	1/18/17	2 to 7	16.3	96.9	NA
SC-13	1/13/17	2 to 10	9.6	47.1	NA
SC-14	1/13/17	2 to 10	12.1	33.6	NA
SC-15	1/13/17	12	31.0	96.9	NA
SC-16	1/17/17	10 to 12	10.9	44.1	NA
SC-17	1/18/17	2 to 10	7.2	159	NA
SC-18	1/17/17	10 to 12	1.7	33.6	NA
SC-19	1/17/17	2 to 10	1.1	<20.0	NA
SC-20	1/17/17	2 to 8	0.0	75.8	NA

NA – not analyzed

*Action level determined by *NMAC 19.15.17.13 Table 1*

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides
Angel Peak 29 BGT Closure, Release Assessment and Final Excavation
January 2017

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH 418.1</i>	<i>TPH-GRO (mg/kg)</i>	<i>TPH-DRO (mg/kg)</i>	<i>TPH-MRO (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
		<i>NMOCD Action Level</i>	<i>10*</i>	<i>50*</i>	<i>100*</i>		<i>100*</i>		<i>600*</i>
BGT SC-1	1/4/17	0.5	<0.015	<0.136	160	<3.0	37	<49	150
SC-1	1/11/17	10	<0.018	<0.159	NA	<3.5	<9.3	<47	<30
SC-2	1/17/17	2 to 8	<0.024	<0.212	NA	<4.7	<10	<50	65
SC-3	1/17/17	2 to 8	<0.017	<0.152	NA	5.4	51	<46	58
SC-4	1/17/17	2 to 8	<0.024	<0.215	NA	<4.8	<9.8	<49	<30
SC-5	1/11/17	2 to 10	<0.016	<0.145	NA	<3.2	22	<49	<30
SC-6	1/13/17	2 to 10	0.14	0.805	NA	4.5	85	54	32
SC-7	1/18/17	2 to 10	<0.020	<0.184	NA	<4.1	60	<49	90
SC-12	1/18/17	2 to 7	<0.024	0.550	NA	6.6	35	<51	<30
SC-13	1/13/17	2 to 10	<0.017	<0.149	NA	<3.3	15	<50	<30
SC-14	1/13/17	2 to 10	<0.017	<0.149	NA	<3.3	<10	<50	<30
SC-15	1/13/17	12	<0.019	0.037	NA	<3.7	34	<47	48
SC-16	1/17/17	10 to 12	<0.024	<0.220	NA	<4.9	<9.4	<47	59
SC-17	1/18/17	2 to 10	<0.024	<0.220	NA	<4.9	45	<47	65
SC-18	1/17/17	10 to 12	<0.023	<0.210	NA	<4.7	<9.6	<48	<30
SC-19	1/17/17	2 to 10	<0.025	<0.222	NA	<4.9	<9.2	<46	<30
SC-20	1/17/17	2 to 8	<0.024	<0.213	NA	<4.7	<9.7	<48	<30

NA – not analyzed

*Action level determined by NMAC 19.15.17.13 Table 1

3.0 Conclusions and Recommendations

3.1 BGT Closure

On January 4, 2017, 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 level of 100 mg/kg for TPH, with BGT SC-1 reporting a laboratory analytical result of 160 mg/kg TPH (418.1). In contrast, total BTEX and chloride concentrations in BGT SC-1 were reported below the respective NMOCD action levels of 50 mg/kg and 600 mg/kg, with less than 0.136 mg/kg total BTEX and 150 mg/kg chloride. Based on laboratory concentrations, a release was confirmed at the BGT at the Angel Peak 29 location.

3.2 Release Assessment and Excavation Clearance

On January 5 and 6, 2017, 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 TH-1 through TH-4, TH-7, TH-9, TH-10, TH-12, TH-13, TH-15, and TH-16. The highest field TPH concentration was reported in TH-2 and TH-15, each with a TPH concentration greater than 3,200 mg/kg. Excavation of the release area was recommended.

On January 18, 2017, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed field TPH concentrations were above the applicable NMOCD action level of 100 mg/kg for SC-2, SC-6, SC-8 through SC-11, and SC-17. However, laboratory analytical results reported TPH concentrations (as GRO/DRO/MRO) as below NMOCD action levels in all samples except SC-6 (northwest wall), which had 4.5 mg/kg GRO, 85 mg/kg DRO, and 54 mg/kg MRO (which is not particularly mobile in the subsurface). Laboratory analytical results reported benzene and total BTEX in all samples as below NMOCD action levels.

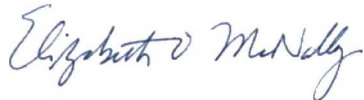
Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Angel Peak 29, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final sidewalls and base of the excavation except SC-6; however, permission to backfill was granted by NMOCD. No further work is recommended.

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

Sincerely,



David J. Reese
Environmental Scientist

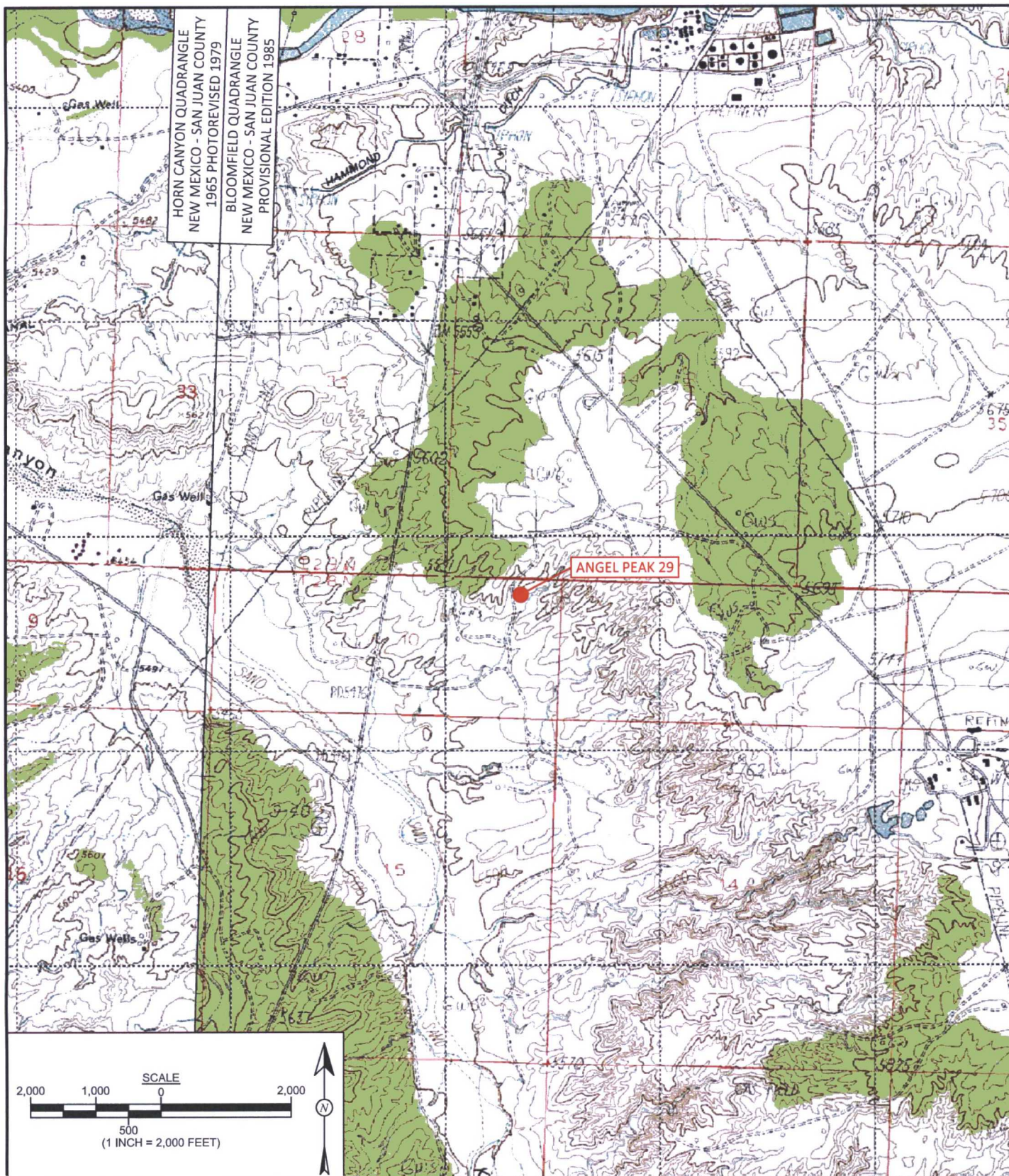


Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, January 2017
- Figure 3. Release Assessment Sample Locations and Results, January 2017
- Figure 4. Final Excavation Sample Locations and Results, January 2017
- AES Field Sampling Report 010417
- AES Field Sampling Report 010517 010617
- AES Field Sampling Report 011117
- AES Field Sampling Report 011317
- AES Field Sampling Report 011717 011817
- Hall Laboratory Analytical Report 1701125
- Hall Laboratory Analytical Report 1701593
- Hall Laboratory Analytical Report 1701594
- Hall Laboratory Analytical Report 1701640
- Hall Laboratory Analytical Report 1701814
- Hall Laboratory Analytical Report 1701818

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animas
environmental
services

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:

S. Glasses

DATE DRAWN:

January 4, 2017

REVISIONS BY:

S. Glasses

DATE REVISED:

January 4, 2017

CHECKED BY:

E. McNally

DATE CHECKED:

January 31, 2017

APPROVED BY:

E. McNally

DATE APPROVED:

January 31, 2017




FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

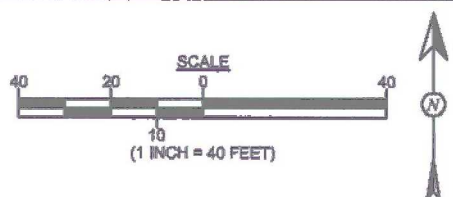
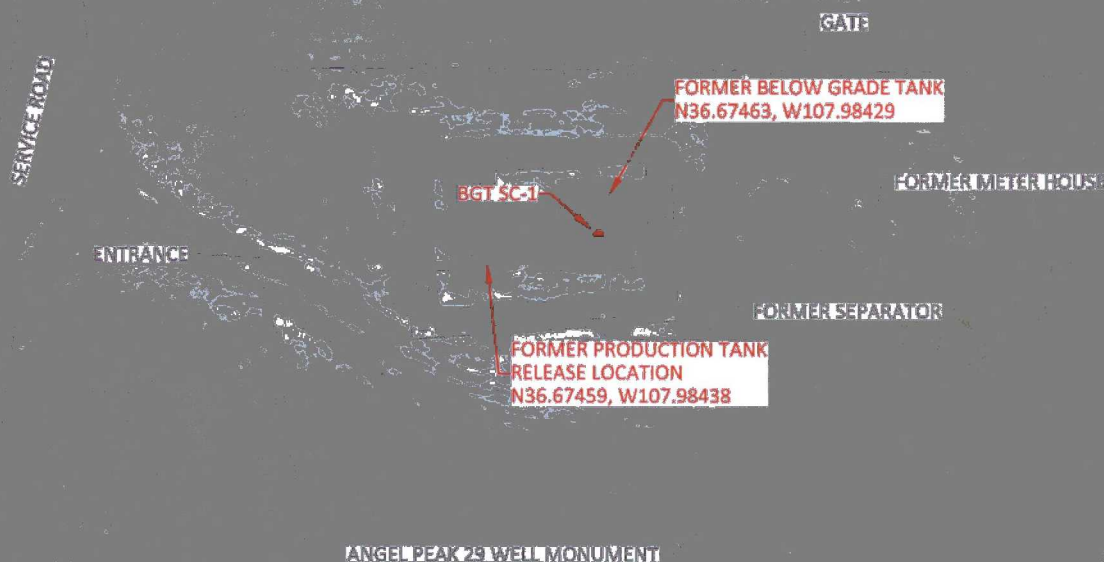
ConocoPhillips
ANGEL PEAK 29
SE $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 10, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.67445, W107.98419

Field Sampling Results					
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			--	100	600
BGT SC-1	1/4/17	0.5	7.1	95.8	40

BGT SC-1 IS A 5-POINT COMPOSITE SAMPLE.

LEGEND	
	SAMPLE LOCATION
	FORMER SECONDARY CONTAINMENT BERM
	FENCE

Laboratory Analytical Results									
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	TPH 418.1 (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			10	50		100		100	600
BGT SC-1	1/4/17	0.5	<0.015	<0.136	<3.0	37	<49	160	150
SAMPLE WAS ANALYZED PER USEPA METHOD 8021B, 8015, 418.1 AND 300.0.									



AERIAL SOURCE: © 2016 GOOGLE EARTH PRO, AERIAL DATE: MARCH 15, 2015



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

DRAWN BY: S. Glasses	DATE DRAWN: January 4, 2017
REVISIONS BY: C. Lameman	DATE REVISED: January 31, 2017
CHECKED BY: E. McNally	DATE CHECKED: January 31, 2017
APPROVED BY: E. McNally	DATE APPROVED: January 31, 2017

FIGURE 2

**AERIAL SITE MAP
JANUARY 2017**
ConocoPhillips
ANGEL PEAK 29
SE¼ NE¼, SECTION 10, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.67445, W107.98419

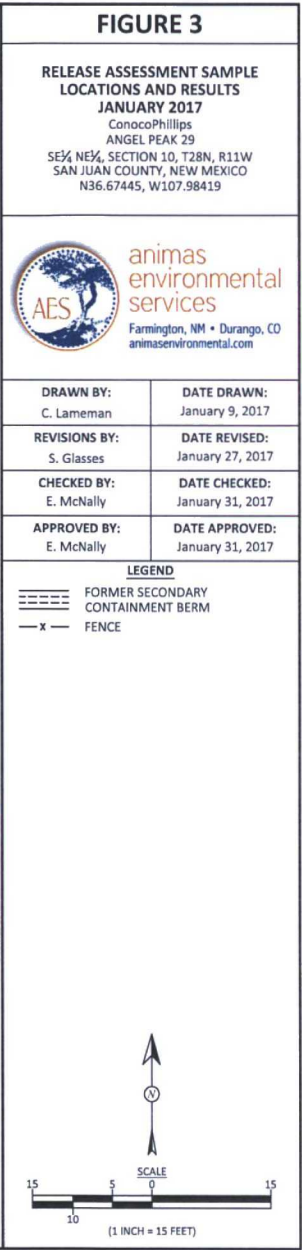
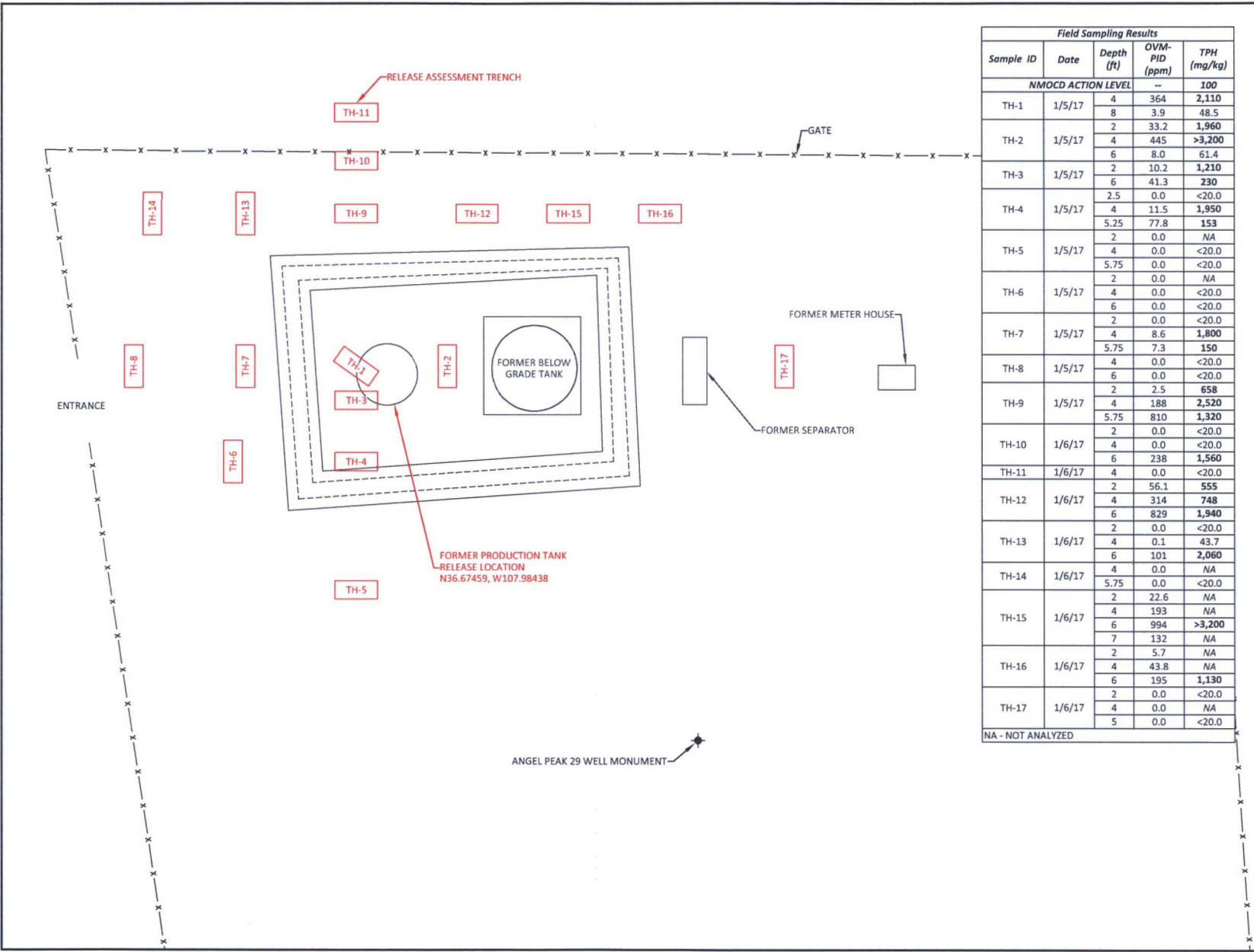


FIGURE 4

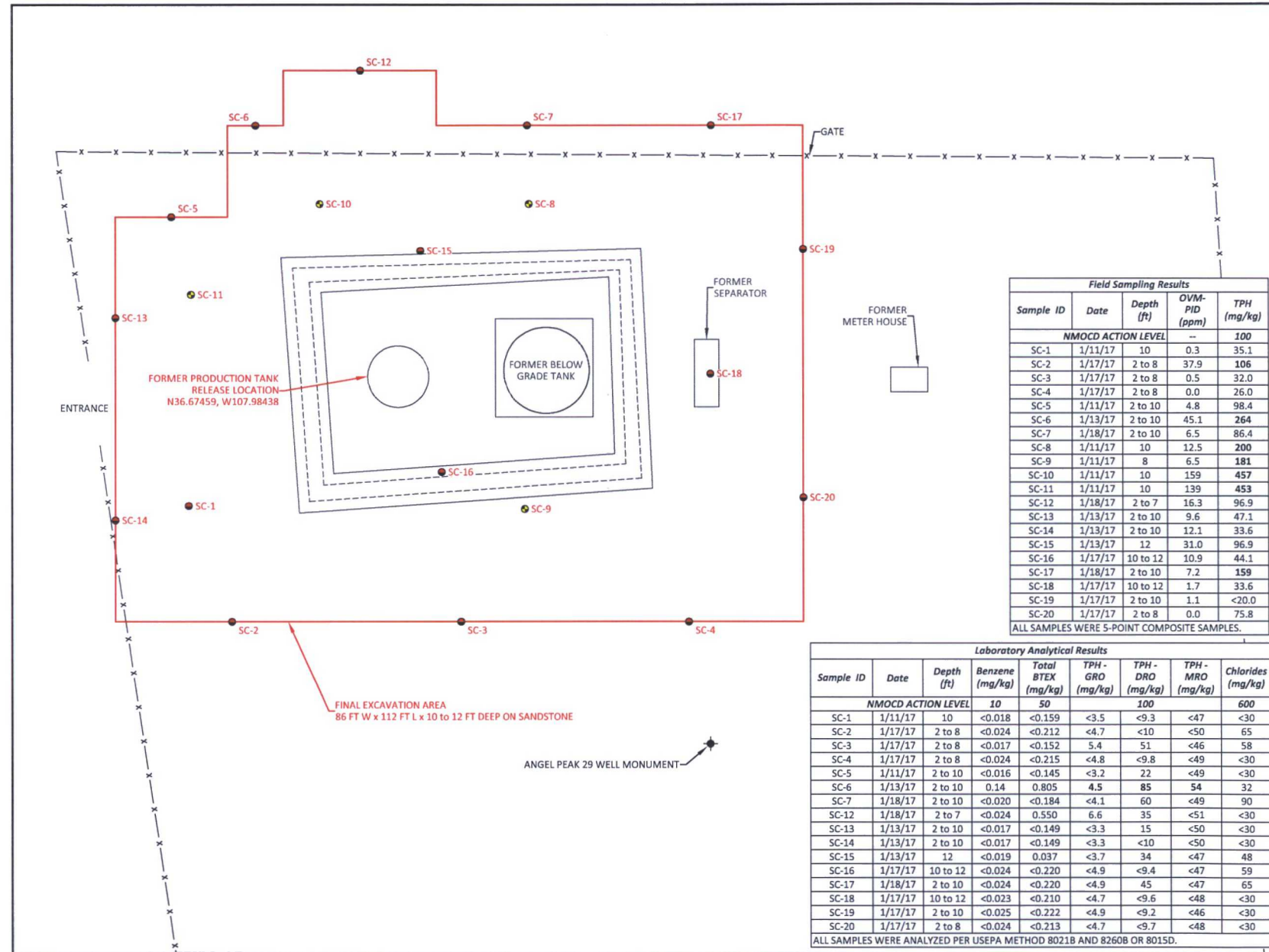
FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
JANUARY 2017
 ConocoPhillips
 ANGEL PEAK 29
 SE¼ NE¼, SECTION 10, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.67445, W107.98419



DRAWN BY: C. Lamean	DATE DRAWN: January 24, 2017
REVISIONS BY: S. Glasses	DATE REVISED: January 27, 2017
CHECKED BY: E. McNally	DATE CHECKED: January 31, 2017
APPROVED BY: E. McNally	DATE APPROVED: January 31, 2017

LEGEND

- COMPOSITE SAMPLE LOCATIONS
- PRIOR BASE SAMPLE LOCATIONS
- FORMER SECONDARY CONTAINMENT BERM
- x- FENCE



AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Angel Peak 29

Date: 1/4/2017

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
BGT SC-1	1/4/2017	10:52	Composite	7.1	40	95.8	11:12	20.0	1	SG

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:

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Angel Peak 29

Date: 1/5/2017 & 1/6/2017

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
TH-1 @ 4'	1/5/2017	9:35	364	2,110	10:07	20.0	1	CL
TH-1 @ 8'	1/5/2017	9:40	3.9	48.5	10:10	20.0	1	CL
TH-2 @ 2'	1/5/2017	10:20	33.2	1,960	10:52	20.0	1	CL
TH-2 @ 4'	1/5/2017	10:28	445	>3,200	10:55	20.0	1	CL
TH-2 @ 6'	1/5/2017	10:30	8.0	61.4	10:58	20.0	1	CL
TH-3 @ 2'	1/5/2017	11:05	10.2	1,210	11:27	20.0	1	CL
TH-3 @ 6'	1/5/2017	11:10	41.3	230	11:29	20.0	1	CL
TH-4 @ 2.5'	1/5/2017	12:20	0.0	<20.0	12:48	20.0	1	CL
TH-4 @ 4'	1/5/2017	12:27	11.5	1,950	12:50	20.0	1	CL
TH-4 @ 5.25'	1/5/2017	12:30	77.8	153	12:53	20.0	1	CL
TH-5 @ 2'	1/5/2017	13:05	0.0	Not Analyzed for TPH				
TH-5 @ 4'	1/5/2017	13:08	0.0	<20.0	13:25	20.0	1	CL
TH-5 @ 5.75'	1/5/2017	13:10	0.0	<20.0	13:28	20.0	1	CL
TH-6 @ 2'	1/5/2017	13:32	0.0	Not Analyzed for TPH				

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-6 @ 4'	1/5/2017	13:38	0.0	<20.0	13:56	20.0	1	CL
TH-6 @ 6'	1/5/2017	13:42	0.0	<20.0	13:59	20.0	1	CL
TH-7 @ 2'	1/5/2017	14:05	0.0	<20.0	14:33	20.0	1	CL
TH-7 @ 4'	1/5/2017	14:11	8.6	1,800	14:30	20.0	1	CL
TH-7 @ 5.75'	1/5/2017	14:13	7.3	150.0	14:10	20.0	1	CL
TH-8 @ 4'	1/5/2017	14:54	0.0	<20.0	15:11	20.0	1	CL
TH-8 @ 6'	1/5/2017	14:56	0.0	<20.0	15:14	20.0	1	CL
TH-9 @ 2'	1/5/2017	15:29	2.5	658	15:55	20.0	1	CL
TH-9 @ 4'	1/5/2017	15:32	188	2,520	15:58	20.0	1	CL
TH-9 @ 5.75'	1/5/2017	15:34	810	1,320	16:00	20.0	1	CL
TH-10 @ 2'	1/6/2017	9:34	0.0	<20.0	10:05	20.0	1	CL
TH-10 @ 4'	1/6/2017	9:36	0.0	<20.0	10:10	20.0	1	CL
TH-10 @ 6'	1/6/2017	9:38	238	1,560	10:15	20.0	1	CL
TH-11 @ 4'	1/6/2017	10:30	0.0	<20.0	10:46	20.0	1	CL
TH-12 @ 2'	1/6/2017	11:20	56.1	555	11:44	20.0	1	CL
TH-12 @ 4'	1/6/2017	11:23	314	74.8	11:47	20.0	1	CL
TH-12 @ 6'	1/6/2017	11:25	829	1,940	11:49	20.0	1	CL
TH-13 @ 2'	1/6/2017	12:20	0.0	<20.0	12:45	20.0	1	CL
TH-13 @ 4'	1/6/2017	12:24	0.1	43.7	12:47	20.0	1	CL
TH-13 @ 6'	1/6/2017	12:27	101	2,060	12:50	20.0	1	CL
TH-14 @ 4'	1/6/2017	13:35	0.0	Not Analyzed for TPH				
TH-14 @ 5.75'	1/6/2017	13:40	0.0	<20.0	14:05	20.0	1	CL
TH-15 @ 2'	1/6/2017	14:24	22.6	Not Analyzed for TPH				
TH-15 @ 4'	1/6/2017	14:28	193	Not Analyzed for TPH				

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-15 @ 6'	1/6/2017	14:32	994	>3,200	14:50	20.0	1	CL
TH-15 @ 7'	1/6/2017	15:08	132	Not Analyzed for TPH				
TH-16 @ 2'	1/6/2017	15:12	5.7	Not Analyzed for TPH				
TH-16 @ 4'	1/6/2017	15:15	43.8	Not Analyzed for TPH				
TH16 @ 6'	1/6/2017	15:18	195	1,130	15:38	20.0	1	CL
TH-17 @ 2'	1/6/2017	15:44	0.0	<20.0	16:16	20.0	1	CL
TH-17 @ 4'	1/6/2017	15:48	0.0	Not Analyzed for TPH				
TH-17 @ 5'	1/6/2017	15:50	0.0	<20.0	16:18	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Angel Peak 29

Date: 1/11/2017

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	1/11/2017	12:35	SW Base	0.3	35.1	12:51	20.0	1	SG
SC-5	1/11/2017	14:43	NW Wall	4.8	98.4	15:13	20.0	1	SG
SC-8	1/11/2017	15:56	E Base	12.5	200	16:32	20.0	1	SG
SC-9	1/11/2017	16:01	N Base	6.5	181	16:36	20.0	1	SG
SC-10	1/11/2017	16:07	Center Base	159	457	16:40	20.0	1	SG
SC-11	1/11/2017	16:12	W Base	139	453	16:43	20.0	1	SG

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Ann H. L. [Signature]

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Angel Peak 29

Date: 1/13/2017

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-6	1/13/2017	12:50	N Wall W 1/2	45.1	264	15:39	20.0	1	CL
SC-13	1/13/2017	13:15	W Wall N 1/2	9.6	47.1	15:48	20.0	1	CL
SC-14	1/13/2017	13:20	W Wall S 1/2	12.1	33.6	15:53	20.0	1	CL
SC-15	1/13/2017	13:40	Base N 1/2	31.0	96.9	16:01	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

**TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Angel Peak 29

Date: 1/17/2017 & 1/18/2017

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-2	1/17/2017	14:30	S Wall W 1/2	37.9	106	15:20	20.0	1	CL
SC-3	1/17/2017	14:20	S Wall Center	0.5	32.0	15:37	20.0	1	CL
SC-4	1/17/2017	14:10	S Wall E 1/2	0.0	26.0	15:35	20.0	1	CL
SC-7	1/18/2017	13:40	N Wall E 1/2	6.5	86.4	14:11	20.0	1	CL
SC-12	1/18/2017	13:35	N Wall Center	16.3	96.9	14:08	20.0	1	CL
SC-16	1/17/2017	13:20	S 1/2 Base	10.9	44.1	15:22	20.0	1	CL
SC-17	1/18/2017	13:45	N Wall E Extn.	7.2	159	14:13	20.0	1	CL
SC-18	1/17/2017	13:40	E Base E Extn.	1.7	33.6	15:27	20.0	1	CL
SC-19	1/17/2017	13:50	E Wall N 1/2	1.1	<20.0	15:29	20.0	1	CL
SC-20	1/17/2017	14:00	E Wall N 1/2	0.0	75.8	15:32	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



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

January 10, 2017

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

RE: COPC Angel Peak 29

OrderNo.: 1701125

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/5/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701125

Date Reported: 1/10/2017

CLIENT: Animas Environmental

Client Sample ID: BGT SC-1

Project: COPC Angel Peak 29

Collection Date: 1/4/2017 10:52:00 AM

Lab ID: 1701125-001

Matrix: MEOH (SOIL)

Received Date: 1/5/2017 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	160	19		mg/Kg	1	1/10/2017	29589
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	30		mg/Kg	20	1/5/2017 9:30:12 PM	29564
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	37	9.8		mg/Kg	1	1/6/2017 12:19:35 PM	29556
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2017 12:19:35 PM	29556
Surr: DNOP	95.0	70-130		%Rec	1	1/6/2017 12:19:35 PM	29556
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	1/5/2017 7:29:44 PM	29500
Surr: BFB	98.4	68.3-144		%Rec	1	1/5/2017 7:29:44 PM	29500
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	1/5/2017 7:29:44 PM	29500
Toluene	ND	0.030		mg/Kg	1	1/5/2017 7:29:44 PM	29500
Ethylbenzene	ND	0.030		mg/Kg	1	1/5/2017 7:29:44 PM	29500
Xylenes, Total	ND	0.061		mg/Kg	1	1/5/2017 7:29:44 PM	29500
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	1/5/2017 7:29:44 PM	29500

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701125

10-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29564		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 29564		RunNo: 39863					
Prep Date:	1/5/2017		Analysis Date: 1/5/2017		SeqNo: 1249645		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29564		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 29564		RunNo: 39863					
Prep Date:	1/5/2017		Analysis Date: 1/5/2017		SeqNo: 1249646		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701125

10-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29589		SampType:	MBLK		TestCode:	EPA Method 418.1: TPH				
Client ID:	PBS		Batch ID:	29589		RunNo:	39931				
Prep Date:	1/9/2017		Analysis Date:	1/10/2017		SeqNo:	1251353		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	ND	20									

Sample ID	LCS-29589		SampType:	LCS		TestCode:	EPA Method 418.1: TPH				
Client ID:	LCSS		Batch ID:	29589		RunNo:	39931				
Prep Date:	1/9/2017		Analysis Date:	1/10/2017		SeqNo:	1251354		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	96	20	100.0	0	95.7	80.7	121				

Sample ID	LCSD-29589		SampType:	LCSD		TestCode:	EPA Method 418.1: TPH				
Client ID:	LCSS02		Batch ID:	29589		RunNo:	39931				
Prep Date:	1/9/2017		Analysis Date:	1/10/2017		SeqNo:	1251355		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Petroleum Hydrocarbons, TR	91	20	100.0	0	90.7	80.7	121	5.38	20		

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701125

10-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	LCS-29556		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29556		RunNo: 39871					
Prep Date:	1/5/2017		Analysis Date: 1/6/2017		SeqNo: 1249829		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	63.8	116			
Surr: DNOP	4.1		5.000		82.1	70	130			

Sample ID	MB-29556	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	29556		RunNo:	39871				
Prep Date:	1/5/2017	Analysis Date:	1/6/2017		SeqNo:	1249830	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701125

10-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29500		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 29500		RunNo: 39841					
Prep Date:	1/3/2017		Analysis Date: 1/5/2017		SeqNo: 1249189		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.1	68.3	144			

Sample ID	LCS-29500		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 29500		RunNo: 39841					
Prep Date:	1/3/2017		Analysis Date: 1/5/2017		SeqNo: 1249190		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	74.6	123			
Surr: BFB	940		1000		94.3	68.3	144			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701125

10-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29500		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	29500		RunNo:	39841			
Prep Date:	1/3/2017		Analysis Date:	1/5/2017		SeqNo:	1249237		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	80	120			

Sample ID	LCS-29500		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	29500		RunNo:	39841			
Prep Date:	1/3/2017		Analysis Date:	1/5/2017		SeqNo:	1249238		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	75.2	115			
Toluene	0.99	0.050	1.000	0	99.1	80.7	112			
Ethylbenzene	0.94	0.050	1.000	0	93.9	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	94.4	79.2	115			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1701125

RcptNo: 1

Received by/date: LM 1/5/17

Logged By: Andy Jansson 1/5/2017 7:25:00 AM

Completed By: Andy Jansson 1/5/17

Reviewed By: JA 01/05/17

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Yes			

EDD (Type) _____

Sample Temperature: 7.7



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

[illegible]

e:	Time:	Relinquished by:	Received by:	Date	Time
4/17	1830	<i>[Signature]</i>	<i>[Signature]</i>	01/05/17	0720

Remarks: Bill to Conoco Phillips
WO #:10390178
Supervisor: Michael Wissing
USERID: KAITLW
Area: 2
Ordered by: Lisa Hunter

Call with Questions



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

January 17, 2017

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

RE: CoP Angel Peak 29

OrderNo.: 1701593

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/14/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1701593

Date Reported: 1/17/2017

CLIENT: Animas Environmental**Client Sample ID:** SC-6**Project:** CoP Angel Peak 29**Collection Date:** 1/13/2017 12:50:00 PM**Lab ID:** 1701593-001**Matrix:** MEOH (SOIL)**Received Date:** 1/14/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	32	30		mg/Kg	20	1/16/2017 11:25:07 AM	29704
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	85	9.3		mg/Kg	1	1/16/2017 10:09:58 AM	29698
Motor Oil Range Organics (MRO)	54	46		mg/Kg	1	1/16/2017 10:09:58 AM	29698
Surr: DNOP	93.5	70-130		%Rec	1	1/16/2017 10:09:58 AM	29698
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4.5	3.7		mg/Kg	1	1/16/2017 12:05:49 PM	G40040
Surr: BFB	98.3	68.3-144		%Rec	1	1/16/2017 12:05:49 PM	G40040
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.14	0.019		mg/Kg	1	1/16/2017 12:05:49 PM	B40040
Toluene	0.065	0.037		mg/Kg	1	1/16/2017 12:05:49 PM	B40040
Ethylbenzene	0.15	0.037		mg/Kg	1	1/16/2017 12:05:49 PM	B40040
Xylenes, Total	0.45	0.075		mg/Kg	1	1/16/2017 12:05:49 PM	B40040
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	1/16/2017 12:05:49 PM	B40040

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701593

Date Reported: 1/17/2017

CLIENT: Animas Environmental

Client Sample ID: SC-7

Project: CoP Angel Peak 29

Collection Date: 1/13/2017 12:30:00 PM

Lab ID: 1701593-002

Matrix: MEOH (SOIL)

Received Date: 1/14/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	91	30		mg/Kg	20	1/16/2017 11:37:31 AM	29704
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	240	9.3		mg/Kg	1	1/16/2017 10:31:25 AM	29698
Motor Oil Range Organics (MRO)	130	46		mg/Kg	1	1/16/2017 10:31:25 AM	29698
Surr: DNOP	105	70-130		%Rec	1	1/16/2017 10:31:25 AM	29698
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	15	3.8		mg/Kg	1	1/16/2017 12:29:32 PM	G40040
Surr: BFB	206	68.3-144	S	%Rec	1	1/16/2017 12:29:32 PM	G40040
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.032	0.019		mg/Kg	1	1/16/2017 12:29:32 PM	B40040
Toluene	ND	0.038		mg/Kg	1	1/16/2017 12:29:32 PM	B40040
Ethylbenzene	0.18	0.038		mg/Kg	1	1/16/2017 12:29:32 PM	B40040
Xylenes, Total	0.32	0.076		mg/Kg	1	1/16/2017 12:29:32 PM	B40040
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	1/16/2017 12:29:32 PM	B40040

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701593

Date Reported: 1/17/2017

CLIENT: Animas Environmental

Client Sample ID: SC-12

Project: CoP Angel Peak 29

Collection Date: 1/13/2017 12:40:00 PM

Lab ID: 1701593-003

Matrix: MEOH (SOIL)

Received Date: 1/14/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	48	30		mg/Kg	20	1/16/2017 11:49:56 AM	29704
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	250	9.8		mg/Kg	1	1/16/2017 10:53:06 AM	29698
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	1/16/2017 10:53:06 AM	29698
Surr: DNOP	104	70-130		%Rec	1	1/16/2017 10:53:06 AM	29698
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	19	3.8		mg/Kg	1	1/16/2017 12:53:05 PM	G40040
Surr: BFB	232	68.3-144	S	%Rec	1	1/16/2017 12:53:05 PM	G40040
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	1/16/2017 12:53:05 PM	B40040
Toluene	ND	0.038		mg/Kg	1	1/16/2017 12:53:05 PM	B40040
Ethylbenzene	0.045	0.038		mg/Kg	1	1/16/2017 12:53:05 PM	B40040
Xylenes, Total	0.30	0.075		mg/Kg	1	1/16/2017 12:53:05 PM	B40040
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	1/16/2017 12:53:05 PM	B40040

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701593

17-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	MB-29704		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 29704		RunNo: 40057					
Prep Date:	1/16/2017		Analysis Date: 1/16/2017		SeqNo: 1255351		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29704		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 29704		RunNo: 40057					
Prep Date:	1/16/2017		Analysis Date: 1/16/2017		SeqNo: 1255352		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701593

17-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	LCS-29698		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29698		RunNo: 40028					
Prep Date:	1/16/2017		Analysis Date: 1/16/2017		SeqNo: 1254640		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.3	63.8	116			
Surr: DNOP	4.6		5.000		91.2	70	130			

Sample ID	MB-29698		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 29698		RunNo: 40028					
Prep Date:	1/16/2017		Analysis Date: 1/16/2017		SeqNo: 1254641		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.0	70	130			

Sample ID	1701593-001AMS		SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	SC-6		Batch ID:	29698		RunNo:	40028				
Prep Date:	1/16/2017		Analysis Date:	1/16/2017		SeqNo:	1254753		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	120	9.7	48.69	84.89	72.7	51.6	130				
Surr: DNOP	4.6		4.869		95.3	70	130				

Sample ID	1701593-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	SC-6		Batch ID:	29698		RunNo:	40028				
Prep Date:	1/16/2017		Analysis Date:	1/16/2017		SeqNo:	1254786		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	120	9.9	49.65	84.89	61.2	51.6	130	4.25	20		
Surr: DNOP	4.8		4.965		96.6	70	130	0	0		

Sample ID	MB-29674			SampType:	MBLK			TestCode:	EPA Method 8015M/D: Diesel Range Organics		
Client ID:	PBS			Batch ID:	29674			RunNo:	40030		
Prep Date:	1/13/2017			Analysis Date:	1/16/2017			SeqNo:	1254788 Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	10		10.00		105	70	130				

Sample ID	LCS-29674		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29674		RunNo: 40030					
Prep Date:	1/13/2017		Analysis Date: 1/16/2017		SeqNo: 1254824		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	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
- 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#: 1701593

17-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	LCS-29674		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29674		RunNo: 40030					
Prep Date:	1/13/2017		Analysis Date: 1/16/2017		SeqNo: 1254824		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		109	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701593

17-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID: G40040			RunNo: 40040						
Prep Date:		Analysis Date: 1/16/2017			SeqNo: 1254956		Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		ND	5.0								
Surr: BFB		860		1000		86.4	68.3	144			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch ID:	G40040	RunNo:	40040						
Prep Date:		Analysis Date:	1/16/2017	SeqNo:	1254957	Units:	mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		25	5.0	25.00	0	99.8	74.6	123			
Surr: BFB		1000		1000		99.8	68.3	144			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701593

17-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B40040	RunNo:	40040					
Prep Date:		Analysis Date:	1/16/2017	SeqNo:	1254972	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B40040	RunNo:	40040					
Prep Date:		Analysis Date:	1/16/2017	SeqNo:	1254973	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	75.2	115			
Toluene	0.97	0.050	1.000	0	96.9	80.7	112			
Ethylbenzene	0.94	0.050	1.000	0	94.3	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	93.9	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1701593

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

1/14/2017 9:00:00 AM

Completed By: Lindsay Mangin

1/14/2017 10:33:13 AM

Reviewed By: *aj*

1/16/17

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.6	Good	Yes			

Client: Animas Environmental Services

Mailing Address: 1604 W. Pinon St

Farmington NM 87401

hone #: 505-564-2281

nail or Fax#: claneman Canine environmental. com

A/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

ccreditation

☒ NELAP ☐ Other

EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush Same Day

Project Name:

COPC Angel Peak 29

Project #:

Project Manager:

C. Lammiman | B. McNally

Sampler: CL/D5

On Ice: ☒ Yes ☐ No


Sample Temperature	10
--------------------	----

[illegible]

ate:	Time:	Relinquished by:
5/17	ms	

ate:	Time:	Relinquished by:
12/17	1814	C. H. 1/18/17

Received by M. H. Hall

Received by: 

Date 1/13/17 Time 1725

Date: 11/11/2023 Time: 11:11 AM

Remarks: Bill to Conoco Phillips
WO #: 10390178

Supervisor: Micheal Wessing
USERID: KATTLW

ordered by Lisa Hunter

Call of Questions



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

	X	X	X	BTEX + MTBE + TMB's (8021)
				BTEX + MTBE + TPH (Gas only)
	X	X	X	TPH 8015B (GRO / DRO / MRO)
				TPH (Method 418.1)
				EDB (Method 504.1)
				PAH's (8310 or 8270 SIMS)
				RCRA 8 Metals
				Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
				8081 Pesticides / 8082 PCB's
				8260B (VOA)
				8270 (Semi-VOA)
	X	X	X	Chlorides (300.0)
				Air Bubbles (V or N)

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



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

January 24, 2017

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

RE: CoP Angel Peak 29

OrderNo.: 1701594

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/14/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701594

Date Reported: 1/24/2017

CLIENT: Animas Environmental

Client Sample ID: SC-13

Project: CoP Angel Peak 29

Collection Date: 1/13/2017 1:15:00 PM

Lab ID: 1701594-001

Matrix: SOIL

Received Date: 1/14/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/17/2017 4:59:45 PM	29727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	15	10		mg/Kg	1	1/17/2017 2:12:45 PM	29711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/17/2017 2:12:45 PM	29711
Surr: DNOP	104	70-130		%Rec	1	1/17/2017 2:12:45 PM	29711
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	1/16/2017 1:16:36 PM	G40040
Surr: BFB	94.5	68.3-144		%Rec	1	1/16/2017 1:16:36 PM	G40040
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	1/16/2017 1:16:36 PM	B40040
Toluene	ND	0.033		mg/Kg	1	1/16/2017 1:16:36 PM	B40040
Ethylbenzene	ND	0.033		mg/Kg	1	1/16/2017 1:16:36 PM	B40040
Xylenes, Total	ND	0.066		mg/Kg	1	1/16/2017 1:16:36 PM	B40040
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	1/16/2017 1:16:36 PM	B40040

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701594

Date Reported: 1/24/2017

CLIENT: Animas Environmental

Client Sample ID: SC-14

Project: CoP Angel Peak 29

Collection Date: 1/13/2017 1:20:00 PM

Lab ID: 1701594-002

Matrix: SOIL

Received Date: 1/14/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/17/2017 5:12:09 PM	29727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/17/2017 2:39:58 PM	29711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/17/2017 2:39:58 PM	29711
Surr: DNOP	109	70-130		%Rec	1	1/17/2017 2:39:58 PM	29711
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	1/16/2017 1:40:04 PM	G40040
Surr: BFB	89.5	68.3-144		%Rec	1	1/16/2017 1:40:04 PM	G40040
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	1/16/2017 1:40:04 PM	B40040
Toluene	ND	0.033		mg/Kg	1	1/16/2017 1:40:04 PM	B40040
Ethylbenzene	ND	0.033		mg/Kg	1	1/16/2017 1:40:04 PM	B40040
Xylenes, Total	ND	0.066		mg/Kg	1	1/16/2017 1:40:04 PM	B40040
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	1/16/2017 1:40:04 PM	B40040

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701594

Date Reported: 1/24/2017

CLIENT: Animas Environmental

Client Sample ID: SC-15

Project: CoP Angel Peak 29

Collection Date: 1/13/2017 1:40:00 PM

Lab ID: 1701594-003

Matrix: SOIL

Received Date: 1/14/2017 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	48	30		mg/Kg	20	1/17/2017 5:49:24 PM	29727
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	34	9.5		mg/Kg	1	1/17/2017 3:07:16 PM	29711
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/17/2017 3:07:16 PM	29711
Surr: DNOP	115	70-130		%Rec	1	1/17/2017 3:07:16 PM	29711
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	1/16/2017 2:03:36 PM	G40040
Surr: BFB	107	68.3-144		%Rec	1	1/16/2017 2:03:36 PM	G40040
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	1/16/2017 2:03:36 PM	B40040
Toluene	ND	0.037		mg/Kg	1	1/16/2017 2:03:36 PM	B40040
Ethylbenzene	0.037	0.037		mg/Kg	1	1/16/2017 2:03:36 PM	B40040
Xylenes, Total	ND	0.074		mg/Kg	1	1/16/2017 2:03:36 PM	B40040
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	1/16/2017 2:03:36 PM	B40040

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701594

24-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	MB-29727	SampType	mbk	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	29727	RunNo	40074					
Prep Date	1/16/2017	Analysis Date	1/17/2017	SeqNo	1256647	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29727	SampType	lcs	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	29727	RunNo	40074					
Prep Date	1/16/2017	Analysis Date	1/17/2017	SeqNo	1256648	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701594

24-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	MB-29711		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 29711		RunNo: 40061					
Prep Date:	1/16/2017		Analysis Date: 1/17/2017		SeqNo: 1255569		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Sample ID	LCS-29711		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29711		RunNo: 40061					
Prep Date:	1/16/2017		Analysis Date: 1/17/2017		SeqNo: 1255607		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	63.8	116			
Surr: DNOP	5.8		5.000		116	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701594

24-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID: G40040			RunNo: 40040						
Prep Date:		Analysis Date: 1/16/2017			SeqNo: 1254956		Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		ND	5.0								
Surr: BFB		860		1000		86.4	68.3	144			

Sample ID	2.5UG GRO LCS	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch ID: G40040			RunNo: 40040						
Prep Date:		Analysis Date: 1/16/2017			SeqNo: 1254957		Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		25	5.0	25.00	0	99.8	74.6	123			
Surr: BFB		1000		1000		99.8	68.3	144			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701594

24-Jan-17

Client: Animas Environmental

Project: CoP Angel Peak 29

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B40040	RunNo:	40040					
Prep Date:		Analysis Date:	1/16/2017	SeqNo:	1254972	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B40040	RunNo:	40040					
Prep Date:		Analysis Date:	1/16/2017	SeqNo:	1254973	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	75.2	115			
Toluene	0.97	0.050	1.000	0	96.9	80.7	112			
Ethylbenzene	0.94	0.050	1.000	0	94.3	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	93.9	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

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



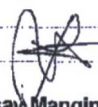

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1701594

RcptNo: 1

Received by/date:  01/16/17
Logged By: Lindsay Mangin 1/14/2017 9:00:00 AM
Completed By: Lindsay Mangin 1/14/2017 10:39:46 AM
Reviewed By:  01/16/17




Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			



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

January 20, 2017

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

RE: CoPC Angel Peak 29

OrderNo.: 1701640

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/17/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701640

Date Reported: 1/20/2017

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoPC Angel Peak 29

Collection Date: 1/11/2017 12:35:00 PM

Lab ID: 1701640-001

Matrix: MEOH (SOIL)

Received Date: 1/17/2017 7:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/19/2017 2:58:23 PM	29791
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/18/2017 2:46:02 PM	29732
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2017 2:46:02 PM	29732
Surr: DNOP	112	70-130		%Rec	1	1/18/2017 2:46:02 PM	29732
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	1/18/2017 1:07:50 PM	GS40105
Surr: BFB	81.2	68.3-144		%Rec	1	1/18/2017 1:07:50 PM	GS40105
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.018		mg/Kg	1	1/18/2017 1:07:50 PM	BS40105
Toluene	ND	0.035		mg/Kg	1	1/18/2017 1:07:50 PM	BS40105
Ethylbenzene	ND	0.035		mg/Kg	1	1/18/2017 1:07:50 PM	BS40105
Xylenes, Total	ND	0.071		mg/Kg	1	1/18/2017 1:07:50 PM	BS40105
Surr: 4-Bromofluorobenzene	83.7	80-120		%Rec	1	1/18/2017 1:07:50 PM	BS40105

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701640

Date Reported: 1/20/2017

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoPC Angel Peak 29

Collection Date: 1/11/2017 2:43:00 PM

Lab ID: 1701640-002

Matrix: MEOH (SOIL)

Received Date: 1/17/2017 7:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/19/2017 3:35:36 PM	29791
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: MAB
Diesel Range Organics (DRO)	22	9.7		mg/Kg	1	1/18/2017 3:13:20 PM	29732
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/18/2017 3:13:20 PM	29732
Surr: DNOP	104	70-130		%Rec	1	1/18/2017 3:13:20 PM	29732
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	1/18/2017 1:31:21 PM	GS40105
Surr: BFB	80.8	68.3-144		%Rec	1	1/18/2017 1:31:21 PM	GS40105
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.016		mg/Kg	1	1/18/2017 1:31:21 PM	BS40105
Toluene	ND	0.032		mg/Kg	1	1/18/2017 1:31:21 PM	BS40105
Ethylbenzene	ND	0.032		mg/Kg	1	1/18/2017 1:31:21 PM	BS40105
Xylenes, Total	ND	0.065		mg/Kg	1	1/18/2017 1:31:21 PM	BS40105
Surr: 4-Bromofluorobenzene	82.1	80-120		%Rec	1	1/18/2017 1:31:21 PM	BS40105

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701640

20-Jan-17

Client: Animas Environmental

Project: CoPC Angel Peak 29

Sample ID	MB-29791	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	29791	RunNo:	40154					
Prep Date:	1/19/2017	Analysis Date:	1/19/2017	SeqNo:	1258757	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29791	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	29791	RunNo:	40154					
Prep Date:	1/19/2017	Analysis Date:	1/19/2017	SeqNo:	1258758	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701640

20-Jan-17

Client: Animas Environmental

Project: CoPC Angel Peak 29

Sample ID	MB-29732	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	29732	RunNo:	40106					
Prep Date:	1/17/2017	Analysis Date:	1/18/2017	SeqNo:	1257309	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Sample ID	LCS-29732	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	29732	RunNo:	40106					
Prep Date:	1/17/2017	Analysis Date:	1/18/2017	SeqNo:	1257323	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.3	63.8	116			
Surr: DNOP	5.6		5.000		113	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701640

20-Jan-17

Client: Animas Environmental

Project: CoPC Angel Peak 29

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	GS40105	RunNo:	40105					
Prep Date:		Analysis Date:	1/18/2017	SeqNo:	1257187	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	74.6	123			
Surr: BFB	940		1000		93.6	68.3	144			

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	GS40105	RunNo:	40105					
Prep Date:		Analysis Date:	1/18/2017	SeqNo:	1257188	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		82.8	68.3	144			

Sample ID	1701640-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	GS40105	RunNo:	40105					
Prep Date:		Analysis Date:	1/18/2017	SeqNo:	1258217	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.5	17.74	0	90.2	61.3	150			
Surr: BFB	630		709.7		89.4	68.3	144			

Sample ID	1701640-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	GS40105	RunNo:	40105					
Prep Date:		Analysis Date:	1/18/2017	SeqNo:	1258218	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.5	17.74	0	95.8	61.3	150	6.07	20	
Surr: BFB	630		709.7		89.4	68.3	144	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701640

20-Jan-17

Client: Animas Environmental

Project: CoPC Angel Peak 29

Sample ID	100NG BTEX LCS	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: BS40105			RunNo: 40105					
Prep Date:		Analysis Date: 1/18/2017			SeqNo: 1257197		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	75.2	115			
Toluene	0.98	0.050	1.000	0	97.6	80.7	112			
Ethylbenzene	0.94	0.050	1.000	0	93.9	78.9	117			
Xylenes, Total	2.8	0.10	3.000	0	93.7	79.2	115			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	80	120			

Sample ID	RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: BS40105			RunNo: 40105					
Prep Date:		Analysis Date: 1/18/2017			SeqNo: 1257198		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	80	120			

Sample ID	1701640-002AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-5		Batch ID: BS40105		RunNo: 40105					
Prep Date:			Analysis Date: 1/18/2017		SeqNo: 1258243		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.016	0.6489	0	99.1	61.5	138			
Toluene	0.56	0.032	0.6489	0.01157	84.5	71.4	127			
Ethylbenzene	0.54	0.032	0.6489	0.01108	81.4	70.9	132			
Xylenes, Total	1.6	0.065	1.947	0.03313	81.6	76.2	123			
Surr: 4-Bromofluorobenzene	0.57		0.6489		88.0	80	120			

Sample ID	1701640-002AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-5		Batch ID: BS40105		RunNo: 40105					
Prep Date:			Analysis Date: 1/18/2017		SeqNo: 1258244		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.016	0.6489	0	95.7	61.5	138	3.49	20	
Toluene	0.55	0.032	0.6489	0.01157	82.7	71.4	127	2.02	20	
Ethylbenzene	0.53	0.032	0.6489	0.01108	79.9	70.9	132	1.78	20	
Xylenes, Total	1.6	0.065	1.947	0.03313	80.8	76.2	123	0.980	20	
Surr: 4-Bromofluorobenzene	0.58		0.6489		89.6	80	120	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1701640

RcptNo: 1

Received by/date:

Logged By:

Lindsay Mangin

1/17/2017 7:05:00 AM

Completed By:

Lindsay Mangin

1/17/2017 8:06:16 AM

Reviewed By:

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.4	Good	Yes			

ient: Animas Environmental Services

ailing Address: 604 W. Pinar St.
Farmington NM 87401

hone #: 505-924-2281

ail or Fax#: clamenan@animasenvironmental.com

VQC Package:

' Standard ☐ Level 4 (Full Validation)

creditation

NELAP ☐ Other _____

EDD (Type) _____

☐ Standard ☒ Rush 3-Day TAT

LOPL Angel Peak 29

Project Manager:

C. Lameman / E. McNally

On Ice: ☒ Yes ☐ No

Sample Temperature: 14

Container
Type and #Preservative
Type

HEAL No

170164

- 001

-002

Black	White	Black
White	Black	White
Black	White	Black

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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


Analysis Request

	X	X	BTEX + MTBE + TMB's (8021)
			BTEX + MTBE + TPH (Gas only)
	X	X	TPH 8015B (GRO / DRO / MRO)
			TPH (Method 418.1)
			EDB (Method 504.1)
			PAH's (8310 or 8270 SIMS)
			RCRA 8 Metals
			Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
			8081 Pesticides / 8082 PCB's
			8260B (VOA)
			8270 (Semi-VOA)
	X	X	Chlorides (300.0)
			Air Bubbles (Y or N)

ite:	Time:	Relinquished by:
1/17/19		Carlin

ite:	Time:	Relinquished by:
1/17	1806	Christine Weeks

Received by: Christine West Date 4/6/17 Time 1719

Received by:	Date	Time
	01/17/16	0705

Remarks: Bill to CenocoPhillips
Wdt#: 10390178
Supervisor: Michael Wissing
User ID: KAITLW
Area: 2
Ordered by: Lisa Hunter

Call w/ Questions

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



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

January 20, 2017

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

RE: COPC Angel Peak 29

OrderNo.: 1701814

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/19/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701814

Date Reported: 1/20/2017

CLIENT: Animas Environmental

Client Sample ID: SC-7

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:00:00 PM

Lab ID: 1701814-001

Matrix: MEOH (SOIL)

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	90	30		mg/Kg	20	1/19/2017 11:02:37 AM	29791
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	1/19/2017 12:37:37 PM	G40131
Surr: BFB	105	70-130		%Rec	1	1/19/2017 12:37:37 PM	G40131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	60	9.9		mg/Kg	1	1/19/2017 10:56:32 AM	29777
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2017 10:56:32 AM	29777
Surr: DNOP	101	70-130		%Rec	1	1/19/2017 10:56:32 AM	29777
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.020		mg/Kg	1	1/19/2017 12:37:37 PM	R40131
Toluene	ND	0.041		mg/Kg	1	1/19/2017 12:37:37 PM	R40131
Ethylbenzene	ND	0.041		mg/Kg	1	1/19/2017 12:37:37 PM	R40131
Xylenes, Total	ND	0.082		mg/Kg	1	1/19/2017 12:37:37 PM	R40131
Surr: 1,2-Dichloroethane-d4	98.4	70-130		%Rec	1	1/19/2017 12:37:37 PM	R40131
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	1/19/2017 12:37:37 PM	R40131
Surr: Dibromofluoromethane	105	70-130		%Rec	1	1/19/2017 12:37:37 PM	R40131
Surr: Toluene-d8	101	70-130		%Rec	1	1/19/2017 12:37:37 PM	R40131

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

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

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1701814

Date Reported: 1/20/2017

CLIENT: Animas Environmental**Client Sample ID:** SC-17**Project:** COPC Angel Peak 29**Collection Date:** 1/18/2017 3:25:00 PM**Lab ID:** 1701814-002**Matrix:** MEOH (SOIL)**Received Date:** 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	65	30		mg/Kg	20	1/19/2017 11:15:01 AM	29791
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/19/2017 1:06:23 PM	G40131
Surr: BFB	105	70-130		%Rec	1	1/19/2017 1:06:23 PM	G40131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	45	9.3		mg/Kg	1	1/19/2017 11:17:59 AM	29777
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/19/2017 11:17:59 AM	29777
Surr: DNOP	103	70-130		%Rec	1	1/19/2017 11:17:59 AM	29777
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	1/19/2017 1:06:23 PM	R40131
Toluene	ND	0.049		mg/Kg	1	1/19/2017 1:06:23 PM	R40131
Ethylbenzene	ND	0.049		mg/Kg	1	1/19/2017 1:06:23 PM	R40131
Xylenes, Total	ND	0.098		mg/Kg	1	1/19/2017 1:06:23 PM	R40131
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	1/19/2017 1:06:23 PM	R40131
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	1/19/2017 1:06:23 PM	R40131
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/19/2017 1:06:23 PM	R40131
Surr: Toluene-d8	98.9	70-130		%Rec	1	1/19/2017 1:06:23 PM	R40131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701814

Date Reported: 1/20/2017

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:35:00 PM

Lab ID: 1701814-003

Matrix: MEOH (SOIL)

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	58	30		mg/Kg	20	1/19/2017 11:27:26 AM	29791
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	5.4	3.4		mg/Kg	1	1/19/2017 12:08:54 PM	G40131
Surr: BFB	103	70-130		%Rec	1	1/19/2017 12:08:54 PM	G40131
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	51	9.1		mg/Kg	1	1/19/2017 11:39:29 AM	29777
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/19/2017 11:39:29 AM	29777
Surr: DNOP	102	70-130		%Rec	1	1/19/2017 11:39:29 AM	29777
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.017		mg/Kg	1	1/19/2017 12:08:54 PM	R40131
Toluene	ND	0.034		mg/Kg	1	1/19/2017 12:08:54 PM	R40131
Ethylbenzene	ND	0.034		mg/Kg	1	1/19/2017 12:08:54 PM	R40131
Xylenes, Total	ND	0.067		mg/Kg	1	1/19/2017 12:08:54 PM	R40131
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	1/19/2017 12:08:54 PM	R40131
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	1/19/2017 12:08:54 PM	R40131
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/19/2017 12:08:54 PM	R40131
Surr: Toluene-d8	96.0	70-130		%Rec	1	1/19/2017 12:08:54 PM	R40131

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701814

20-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29791		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 29791		RunNo: 40154					
Prep Date:	1/19/2017		Analysis Date: 1/19/2017		SeqNo: 1258757		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29791		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 29791		RunNo: 40154					
Prep Date:	1/19/2017		Analysis Date: 1/19/2017		SeqNo: 1258758		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701814

20-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29777	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 29777			RunNo: 40123					
Prep Date:	1/19/2017	Analysis Date: 1/19/2017			SeqNo: 1257613		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.9	70	130			

Sample ID	LCS-29777		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29777		RunNo: 40123					
Prep Date:	1/19/2017		Analysis Date: 1/19/2017		SeqNo: 1257640		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	63.8	116			
Surr: DNOP	4.7		5.000		93.8	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701814

20-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	100ng lcs		SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	LCSS		Batch ID: R40131	RunNo: 40131						
Prep Date:			Analysis Date: 1/19/2017	SeqNo: 1258683		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.1	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.1	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.50		0.5000		99.8	70	130			

Sample ID	rb		SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	PBS		Batch ID: R40131	RunNo: 40131						
Prep Date:			Analysis Date: 1/19/2017	SeqNo: 1258727		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.9	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.49		0.5000		97.4	70	130			

Sample ID	lcs-29756		SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	LCSS		Batch ID: 29756	RunNo: 40131						
Prep Date: 1/18/2017			Analysis Date: 1/19/2017	SeqNo: 1258728		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.8	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.3	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		96.5	70	130			

Sample ID	mb-29756		SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	PBS		Batch ID: 29756	RunNo: 40131						
Prep Date: 1/18/2017			Analysis Date: 1/19/2017	SeqNo: 1258729		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.4	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.5	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701814

20-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	G40131	RunNo:	40131					
Prep Date:		Analysis Date:	1/19/2017	SeqNo:	1258739	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.3	62.9	123			
Surr: BFB	480		500.0		96.5	70	130			

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	G40131	RunNo:	40131					
Prep Date:		Analysis Date:	1/19/2017	SeqNo:	1258740	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	480		500.0		96.1	70	130			

Sample ID	lcs-29756	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	29756	RunNo:	40131					
Prep Date:	1/18/2017	Analysis Date:	1/19/2017	SeqNo:	1258749	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	520		500.0		103	70	130			

Sample ID	mb-29756	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	29756	RunNo:	40131					
Prep Date:	1/18/2017	Analysis Date:	1/19/2017	SeqNo:	1258750	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	540		500.0		108	70	130			

Qualifiers:

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1701814

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

1/19/2017 7:35:00 AM

Completed By: Lindsay Mangin

1/19/2017 8:08:20 AM

Reviewed By: *as*

1/19/17

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: CL

Date: 01/19/17

By Whom: AT

Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding: collection times don't match

Client Instructions: Use collection times on sample & D labels

17. Additional remarks: AT 01/19/17

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

Client: Animas Environmental Services, LLC

Mailing Address: 604 W Pinon St.

Farmington, NM 87401

hone #: 505-564-2281

mail or Fax#: clameman@animasenvironmental.d

A/QC Package:

Standard

☐ **Level 4 (Full Validation)**

.ccreditation:

1 NELAP

☐ Other_

1 EDD (Type)

IDENTIFYING THE

☐ Standard ☒ XRush_SameDay

Project Name:

COPC Angel Peak 29

Project #:

Project Manager:

C. Lameman²/E. McNally

Sampler: CL

On Ice ☒ Yes ☐ No

Sample Temperature

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks: Bill to Conoco Phillips WO #:10390178 Supervisor: Michael Wissing USERID: KAITLW Area: 2 Ordered by: Lisa Hunter	Call with Questions
1/8/17	1805	Carlin	Chavez	1/18/17	1805		
Date:	Time:	Relinquished by:	Received by:	Date	Time		
1/8/17	1904	Christ Waele	Chavez	1/19/17	0735		

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

January 24, 2017

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

RE: COPC Angel Peak 29

OrderNo.: 1701818

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 7 sample(s) on 1/19/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:30:00 PM

Lab ID: 1701818-001

Matrix: SOIL

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	65	30		mg/Kg	20	1/20/2017 2:59:31 PM	29811
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/20/2017 7:47:28 PM	29781
Surr: BFB	105	70-130		%Rec	1	1/20/2017 7:47:28 PM	29781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/20/2017 11:41:48 AM	29778
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/20/2017 11:41:48 AM	29778
Surr: DNOP	107	70-130		%Rec	1	1/20/2017 11:41:48 AM	29778
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	1/20/2017 7:47:28 PM	29781
Toluene	ND	0.047		mg/Kg	1	1/20/2017 7:47:28 PM	29781
Ethylbenzene	ND	0.047		mg/Kg	1	1/20/2017 7:47:28 PM	29781
Xylenes, Total	ND	0.094		mg/Kg	1	1/20/2017 7:47:28 PM	29781
Surr: 1,2-Dichloroethane-d4	85.6	70-130		%Rec	1	1/20/2017 7:47:28 PM	29781
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	1/20/2017 7:47:28 PM	29781
Surr: Dibromofluoromethane	98.8	70-130		%Rec	1	1/20/2017 7:47:28 PM	29781
Surr: Toluene-d8	97.0	70-130		%Rec	1	1/20/2017 7:47:28 PM	29781

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701818

Date Reported: 1/24/2017

CLIENT: Animas Environmental

Client Sample ID: SC-12

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 2:50:00 PM

Lab ID: 1701818-002

Matrix: SOIL

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/20/2017 3:11:55 PM	29811
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	6.6	4.8		mg/Kg	1	1/20/2017 9:13:35 PM	29781
Surr: BFB	98.0	70-130		%Rec	1	1/20/2017 9:13:35 PM	29781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	35	10		mg/Kg	1	1/20/2017 12:03:29 PM	29778
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	1/20/2017 12:03:29 PM	29778
Surr: DNOP	89.0	70-130		%Rec	1	1/20/2017 12:03:29 PM	29778
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	1/20/2017 9:13:35 PM	29781
Toluene	0.072	0.048		mg/Kg	1	1/20/2017 9:13:35 PM	29781
Ethylbenzene	0.058	0.048		mg/Kg	1	1/20/2017 9:13:35 PM	29781
Xylenes, Total	0.42	0.097		mg/Kg	1	1/20/2017 9:13:35 PM	29781
Surr: 1,2-Dichloroethane-d4	87.7	70-130		%Rec	1	1/20/2017 9:13:35 PM	29781
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	1/20/2017 9:13:35 PM	29781
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/20/2017 9:13:35 PM	29781
Surr: Toluene-d8	96.3	70-130		%Rec	1	1/20/2017 9:13:35 PM	29781

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-16

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:40:00 PM

Lab ID: 1701818-003

Matrix: SOIL

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	59	30		mg/Kg	20	1/20/2017 3:49:08 PM	29811
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/20/2017 9:42:17 PM	29781
Surr: BFB	104	70-130		%Rec	1	1/20/2017 9:42:17 PM	29781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/20/2017 12:24:58 PM	29778
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/20/2017 12:24:58 PM	29778
Surr: DNOP	93.5	70-130		%Rec	1	1/20/2017 12:24:58 PM	29778
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	1/20/2017 9:42:17 PM	29781
Toluene	ND	0.049		mg/Kg	1	1/20/2017 9:42:17 PM	29781
Ethylbenzene	ND	0.049		mg/Kg	1	1/20/2017 9:42:17 PM	29781
Xylenes, Total	ND	0.098		mg/Kg	1	1/20/2017 9:42:17 PM	29781
Surr: 1,2-Dichloroethane-d4	82.7	70-130		%Rec	1	1/20/2017 9:42:17 PM	29781
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	1/20/2017 9:42:17 PM	29781
Surr: Dibromofluoromethane	100	70-130		%Rec	1	1/20/2017 9:42:17 PM	29781
Surr: Toluene-d8	97.8	70-130		%Rec	1	1/20/2017 9:42:17 PM	29781

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

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

Analytical Report

Lab Order 1701818

Date Reported: 1/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-18

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:10:00 PM

Lab ID: 1701818-004

Matrix: SOIL

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/20/2017 4:01:32 PM	29811
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/20/2017 10:10:58 PM	29781
Surr: BFB	99.7	70-130		%Rec	1	1/20/2017 10:10:58 PM	29781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/20/2017 12:46:34 PM	29778
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/20/2017 12:46:34 PM	29778
Surr: DNOP	93.3	70-130		%Rec	1	1/20/2017 12:46:34 PM	29778
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.023		mg/Kg	1	1/20/2017 10:10:58 PM	29781
Toluene	ND	0.047		mg/Kg	1	1/20/2017 10:10:58 PM	29781
Ethylbenzene	ND	0.047		mg/Kg	1	1/20/2017 10:10:58 PM	29781
Xylenes, Total	ND	0.093		mg/Kg	1	1/20/2017 10:10:58 PM	29781
Surr: 1,2-Dichloroethane-d4	83.8	70-130		%Rec	1	1/20/2017 10:10:58 PM	29781
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	1/20/2017 10:10:58 PM	29781
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/20/2017 10:10:58 PM	29781
Surr: Toluene-d8	96.9	70-130		%Rec	1	1/20/2017 10:10:58 PM	29781

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1701818
Date Reported: 1/24/2017

CLIENT: Animas Environmental

Client Sample ID: SC-19

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:15:00 PM

Lab ID: 1701818-005

Matrix: SOIL

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/20/2017 4:13:57 PM	29811
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/21/2017 1:03:02 AM	29781
Surr: BFB	98.6	70-130		%Rec	1	1/21/2017 1:03:02 AM	29781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/20/2017 1:08:02 PM	29778
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/20/2017 1:08:02 PM	29778
Surr: DNOP	92.0	70-130		%Rec	1	1/20/2017 1:08:02 PM	29778
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.025		mg/Kg	1	1/21/2017 1:03:02 AM	29781
Toluene	ND	0.049		mg/Kg	1	1/21/2017 1:03:02 AM	29781
Ethylbenzene	ND	0.049		mg/Kg	1	1/21/2017 1:03:02 AM	29781
Xylenes, Total	ND	0.099		mg/Kg	1	1/21/2017 1:03:02 AM	29781
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%Rec	1	1/21/2017 1:03:02 AM	29781
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	1/21/2017 1:03:02 AM	29781
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/21/2017 1:03:02 AM	29781
Surr: Toluene-d8	91.4	70-130		%Rec	1	1/21/2017 1:03:02 AM	29781

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-20

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:20:00 PM

Lab ID: 1701818-006

Matrix: SOIL

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/20/2017 4:26:21 PM	29811
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/21/2017 1:31:41 AM	29781
Surr: BFB	103	70-130		%Rec	1	1/21/2017 1:31:41 AM	29781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/20/2017 1:29:45 PM	29778
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/20/2017 1:29:45 PM	29778
Surr: DNOP	98.0	70-130		%Rec	1	1/20/2017 1:29:45 PM	29778
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	1/21/2017 1:31:41 AM	29781
Toluene	ND	0.047		mg/Kg	1	1/21/2017 1:31:41 AM	29781
Ethylbenzene	ND	0.047		mg/Kg	1	1/21/2017 1:31:41 AM	29781
Xylenes, Total	ND	0.095		mg/Kg	1	1/21/2017 1:31:41 AM	29781
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	1	1/21/2017 1:31:41 AM	29781
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	1/21/2017 1:31:41 AM	29781
Surr: Dibromofluoromethane	102	70-130		%Rec	1	1/21/2017 1:31:41 AM	29781
Surr: Toluene-d8	95.3	70-130		%Rec	1	1/21/2017 1:31:41 AM	29781

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

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

Analytical Report

Lab Order 1701818

Date Reported: 1/24/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: COPC Angel Peak 29

Collection Date: 1/18/2017 3:25:00 PM

Lab ID: 1701818-007

Matrix: SOIL

Received Date: 1/19/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	1/20/2017 4:38:46 PM	29811
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/21/2017 2:00:22 AM	29781
Surr: BFB	98.8	70-130		%Rec	1	1/21/2017 2:00:22 AM	29781
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/20/2017 1:51:12 PM	29778
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/20/2017 1:51:12 PM	29778
Surr: DNOP	98.5	70-130		%Rec	1	1/20/2017 1:51:12 PM	29778
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	1/21/2017 2:00:22 AM	29781
Toluene	ND	0.048		mg/Kg	1	1/21/2017 2:00:22 AM	29781
Ethylbenzene	ND	0.048		mg/Kg	1	1/21/2017 2:00:22 AM	29781
Xylenes, Total	ND	0.095		mg/Kg	1	1/21/2017 2:00:22 AM	29781
Surr: 1,2-Dichloroethane-d4	84.3	70-130		%Rec	1	1/21/2017 2:00:22 AM	29781
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	1/21/2017 2:00:22 AM	29781
Surr: Dibromofluoromethane	100	70-130		%Rec	1	1/21/2017 2:00:22 AM	29781
Surr: Toluene-d8	95.9	70-130		%Rec	1	1/21/2017 2:00:22 AM	29781

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701818

24-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29811	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	29811	RunNo:	40191					
Prep Date:	1/20/2017	Analysis Date:	1/20/2017	SeqNo:	1260020	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29811	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	29811	RunNo:	40191					
Prep Date:	1/20/2017	Analysis Date:	1/20/2017	SeqNo:	1260021	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701818

24-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	MB-29778	SampType:	MBLK			TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	29778			RunNo:	40157				
Prep Date:	1/19/2017	Analysis Date:	1/20/2017			SeqNo:	1258850	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	12		10.00		117	70	130				

Sample ID	LCS-29778		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29778		RunNo: 40157					
Prep Date:	1/19/2017		Analysis Date: 1/20/2017		SeqNo: 1258898		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	63.8	116			
Surr: DNOP	5.9		5.000		117	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701818

24-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	mb-29781		SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	PBS		Batch ID: 29781	RunNo: 40188						
Prep Date:	1/19/2017		Analysis Date: 1/20/2017	SeqNo: 1260158		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		81.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.4	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.2	70	130			
Surr: Toluene-d8	0.49		0.5000		98.6	70	130			

Sample ID	lcs-29781		SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	LCSS		Batch ID: 29781	RunNo: 40188						
Prep Date:	1/19/2017		Analysis Date: 1/20/2017	SeqNo: 1260159		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.2	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.0	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		95.8	70	130			

Sample ID	1701818-001ams		SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	SC-2		Batch ID: 29781	RunNo: 40188						
Prep Date:	1/19/2017		Analysis Date: 1/20/2017	SeqNo: 1260162		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9597	0	101	61.9	146			
Toluene	0.97	0.048	0.9597	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.4798		91.2	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.4798		89.4	70	130			
Surr: Dibromofluoromethane	0.47		0.4798		98.3	70	130			
Surr: Toluene-d8	0.46		0.4798		94.9	70	130			

Sample ID	1701818-001amsd		SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	SC-2		Batch ID: 29781	RunNo: 40188						
Prep Date:	1/19/2017		Analysis Date: 1/20/2017	SeqNo: 1260163		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9728	0	104	61.9	146	4.16	20	
Toluene	0.92	0.049	0.9728	0	95.0	70	130	4.62	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701818

24-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	1701818-001amsd	SampType:	MSD		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	SC-2	Batch ID:	29781		RunNo:	40188				
Prep Date:	1/19/2017	Analysis Date:	1/20/2017		SeqNo:	1260163	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.4864		93.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.46		0.4864		95.1	70	130	0	0	
Surr: Dibromofluoromethane	0.49		0.4864		100	70	130	0	0	
Surr: Toluene-d8	0.46		0.4864		93.8	70	130	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701818

24-Jan-17

Client: Animas Environmental

Project: COPC Angel Peak 29

Sample ID	lcs-29781		SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS		Batch ID: 29781		RunNo: 40188					
Prep Date:	1/19/2017		Analysis Date: 1/20/2017		SeqNo: 1259944		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	95.0	62.9	123			
Surr: BFB	520		500.0		104	70	130			

Sample ID	mb-29781		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: 29781		RunNo: 40188					
Prep Date:	1/19/2017		Analysis Date: 1/20/2017		SeqNo: 1259945		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	510		500.0		102	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
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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: 1701818

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

1/19/2017 7:35:00 AM

Completed By: Lindsay Mangin

1/19/2017 8:40:28 AM

Reviewed By:

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.3	Good	Yes			

Client: **Animas Environmental Services, LLC**

☐ Standard ☒ Rush 3-Day Turnaround

Project Name:

Mailing Address: 604 W Pinon St.

COPC Angel Peak 29

Farmington, NM 87401

Project #:

Phone #: 505-564-2281

Email or Fax#: clameman@animasenvironmental.com

Project Manager:

2A/QC Package:

C. Lameman/E. McNally

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

Sampler: CL

☐ NELAP ☐ Other

On Ice ☒ Yes ☐ No

EDD (Type)

Sample Temperature	2
--------------------	---

[illegible]

Date:	Time:	Relinquished by:
-------	-------	------------------

18/17	1805	Con-ler
-------	------	---------

Received by:	Date	Time
--------------	------	------

Christ Waite 1/18/7 1865

Date:	Time:	Relinquished by:
-------	-------	------------------

1/18/17	1904	Christie Weber
---------	------	----------------

Received by: <i>A /</i>	Date	Time
-------------------------	------	------

0119117 073

Remarks: Bill to Conoco Phillips

WO #:10390178

Supervisor: Michael Wissing

USERID: KAITLW

Area: 2

Ordered by: Lisa Hunter

Call with Questions

