

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837	
Facility Name: Ute 24	Facility Type: Gas Well	
Surface Owner Tribal	Mineral Owner Tribal (I-22-IND-2772)	API No. 30-045-29156

LOCATION OF RELEASE

Unit Letter E	Section 20	Township 32N	Range 14W	Feet from the 1935	North/South Line North	Feet from the 1630	East/West Line West	County San Juan
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Latitude 36.976260 Longitude -108.336680

NATURE OF RELEASE

Type of Release Hydrocarbon & Produced Water	Volume of Release 378.46BBLS Hydrocarbon & 14.46BBLS Produced Water	Volume Recovered 195BBLS Hydrocarbon
Source of Release Oil Dump Line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12/14/13 at 2:00PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? COBLM (Ryan Joyner), UMU (Scott Clow) & NMOCD (Jonathan Kelly)	
By Whom? Crystal Tafoya	Date and Hour 12/15/2013 at 1:28PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

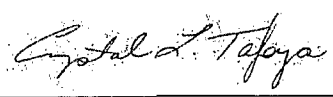
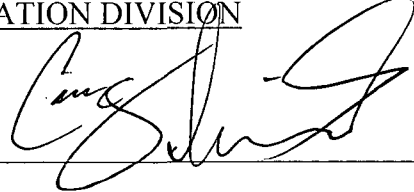
If a Watercourse was Impacted, Describe Fully.*
N/A

OIL CONS. DIV DIST. 3
JUN 05 2014

Describe Cause of Problem and Remedial Action Taken.*
The dump line from 500bbl Production Tank froze at the bull plug and broke allowing the tank to backflow out the 2" line into the containment. 378bbls of Hydrocarbon and 14bbls of Produced Water was released. The location was shut-in prior to this release and has remained shut-in. SPEC Trucks were called to location and 195bbls of Hydrocarbon was recovered.

Describe Area Affected and Cleanup Action Taken.*
The assessment sample results were above regulatory standards by USEPA method 418.1 for TPH confirming a release. Excavation and confirmation sampling occurred. The excavation was 90' x 150' x 5' and 2520 cubic yards of soil was transported to a third party landfarm. Analytical results for TPH, and BTEX were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 6/23/14	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/18/2013 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

#NCS 1417456050



Animas Environmental Services, LLC

www.animasenvironmental.com

May 29, 2014

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-05
5525 Hwy 64
Farmington, New Mexico 87401

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

OIL CONS. DIV DIST. 3
JUN 05 2014

Via electronic mail to:

SJBUE-Team@ConocoPhillips.com

**RE: Initial Release Assessment and Final Excavation Report
Ute #24
San Juan County, New Mexico**

Dear Ms. Tafoya:

During December 2013 and January and February 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Ute #24, located in San Juan County, New Mexico. The dump line from the onsite 500 barrel (bbl) production tank froze at the bull plug and subsequently broke, resulting in a release of approximately 393 barrels (bbls) of condensate and produced water. The initial assessment was conducted on December 20, 2013. Final clearance of the release was conducted on February 10 and 19, 2014.

1.0 Site Information

1.1 Location

Location - SE¼ NW¼, Section 20, T32N, R14W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.97538 and W108.33606, respectively

Release Latitude/Longitude – N36.97510, W108.33621

Land Jurisdiction – Ute Mountain Ute Tribe

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, December 2013

1.2 Regulatory

The facility is located on Ute Mountain Ute lands and is under the jurisdiction of the Ute Mountain Ute Tribe (UMUT) Environmental Program. Standards for releases are determined by the UMUT Environmental Programs Department Standards for spill clean-up and reclamation and are based on Colorado Oil and Gas Conservation Commission Standards (COGCC) outlined within the COGCC Rules 900 Series Exploration and Production (E&P) Waste Management Table 910-1.

1.3 Distance to Surface Water and Groundwater

The site is located on Barker Dome near the valley floor. An unnamed drainage is located approximately 350 feet to the north which drains east to Barker Arroyo. A cathodic report from the Ute #24 dated January 1995 reported water at 140 feet below ground surface (bgs).

1.4 Assessments

AES was initially contacted by Crystal Tafoya of CoP on December 18, 2013, and on December 20, 2013, Deborah Watson and Jesse Christopherson of AES completed the initial release assessment field work. The assessment included collection and field sampling of 22 soil samples from 16 soil borings (SB-1 through SB-16). Based on the field sampling and laboratory analytical results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

Excavation activities at the location began during the week of January 20, 2014. On January 22, 2014, AES was contacted by Crystal Tafoya of CoP to collect a water sample (W-1) from the excavation to determine if the aqueous sample was associated with the release.

On February 10 and 19, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities on February 10, 2014, included collection of eight confirmation soil samples (SC-1A through SC-5B) from the walls and base of the excavation. Following removal of additional impacted soils, samples SC-6 through SC-9 were collected on February 19, 2014. Three confirmation composite soil samples (LC-1 through LC-3) were collected from the final excavation area and submitted for laboratory analysis. The final excavation area measured approximately 125 feet by 122 feet by 6 to 10 feet deep. The excavation was restricted to the north because of the close proximity of the wellhead, and the depth of the excavation was limited due to a competent sandstone layer encountered at 6 to 10 feet bgs. Application of Quantum GrowthTM was applied to the excavation at the request of the Bureau of Land Management (BLM). Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 22 soil samples from 16 locations (SB-1 through SB-16) and 12 composite samples (SC-1A through SC-9) were collected during the assessments. All soil samples, except SC-8 and SC-9, were field screened for volatile organic compounds (VOCs). Selected samples were also analyzed for total petroleum hydrocarbons (TPH). Four composite soil samples from the excavation clearance (SC-1A, SC-1B, SC-2, and SC-3) were submitted for laboratory analysis. Additional composite soil samples (LC-1, LC-2 and LC-3), from the walls and base of the final excavation, were also submitted for laboratory analysis along with a background sample.

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

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

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples SC-1A, SC-1B, SC-2, and SC-3 were laboratory analyzed for:

- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) (excavation samples only) per USEPA Method 8015D.

Soil samples SC-1A and SC-2 were also laboratory analyzed for:

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

The water sample (W-1) was analyzed for:

- TPH for GRO, DRO, and MRO per USEPA Method 8015D;
- BTEX per USEPA Method 8021B;
- Chloride per USEPA Method 300.0; and
- Total dissolved solids (TDS) as per standard method SM2540C.

Composite samples LC-1, LC-2, LC-3 were laboratory analyzed per COGCC Table 910-1 Requirements, which included the following:

- VOCs per USEPA Methods 8015/8021:TPH and BTEX;
- Polynuclear Aromatic Hydrocarbons (PAHs) per USEPA Method 8270C: *acenaphthene, anthracene, benzo(A)anthracene, benzo(B)fluoranthene, benzo(K)fluoranthene, benzo(A)pyrene, chrysene, dibenzo(A,H)anthracene, fluoranthene, fluorene, indeno(1,2,3,C,D)pyrene, naphthalene, and pyrene*;
- Inorganics: *electrical conductivity (EC) and sodium adsorption ratio (SAR)*; and
- Metals per USEPA Method 6010B and 7471: *arsenic, barium, cadmium, chromium (III), chromium (VI), copper, lead, mercury, nickel, selenium, silver, and zinc*.

A background sample was analyzed for:

- Metals per USEPA Method 6010B and 7471.

2.3 Field and Laboratory Analytical Results

2.3.1 Initial Assessment

On December 20, 2013, initial assessment field screening readings for VOCs via OVM ranged from 8.8 ppm in SB-7 to 3,375 ppm in SB-9. Field TPH concentrations ranged from 51.6 mg/kg in SB-10 up to 14,900 mg/kg in SB-2. Results are included in Table 1 and on Figure 3. The AES Field Sampling Report is attached.

Table 1. Field Sampling VOCs and TPH Results
Ute #24 Initial Release Assessment, December 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>TPH 418.1 (mg/kg)</i>
<i>UMUT (COGCC) Standard*</i>			----	500
SB-1	12/20/13	Surface	1,884	>2,500
		0.75	1,530	NA
SB-2	12/20/13	Surface	2,951	NA
		0.5	2,155	14,900

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
<i>UMUT (COGCC) Standard*</i>			----	500
SB-3	12/20/13	Surface	1,975	NA
		0.5	2,117	NA
SB-4	12/20/13	Surface	2,450	NA
		0.75	1,707	>2,500
SB-5	12/20/13	Surface	408	NA
		1.0	97.3	NA
		1.5	1,477	>2,500
SB-6	12/20/13	Surface	27.2	221
SB-7	12/20/13	Surface	8.8	NA
SB-8	12/20/13	Surface	3,154	NA
SB-9	12/20/13	Surface	3,375	NA
SB-10	12/20/13	Surface	960	51.6
SB-11	12/20/13	Surface	334	133
SB-12	12/20/13	Surface	67.0	176
SB-13	12/20/13	Surface	22.2	NA
SB-14	12/20/13	Surface	17.8	NA
SB-15	12/20/13	Surface	15.6	NA
SB-16	12/20/13	Surface	9.6	NA

NA – Not analyzed

*Per Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1

2.3.2 Water

During the initial phase of excavation, water was observed within the excavation. A sample was collected and submitted for laboratory analysis to confirm that it was condensate and produced water associated with the release. The benzene concentration was reported at 3,100 µg/L, and TPH (as DRO/GRO/MRO) was reported at 43 mg/L. Chlorides were reported at 1,900 mg/L, and TDS was reported at 6,210 mg/L. The laboratory analytical report is attached.

2.3.2 Final Clearance of Excavation Area

In February 2014, final excavation field screening results for VOCs via OVM ranged from 0.0 ppm in SC-7 to 4,328 ppm in SC-5A. Field TPH concentrations ranged from 26.5 mg/kg in SC-4A up to greater than 2,400 mg/kg in SC-4B and SC-5A. Results are included in Table 2 and on Figure 4. The AES Field Sampling Reports are attached.

Table 2. Field Sampling VOCs and TPH Results
 Ute #24 Final Excavation, February 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>TPH 418.1 (mg/kg)</i>
<i>UMUT (COGCC) Standard*</i>			----	500
SC-1A	02/10/14	1 to 10	419	752
SC-1B	02/10/14	1 to 10	2.4	35.1
SC-2	02/10/14	1 to 10	26.5	1,860
SC-3	02/10/14	1 to 6	3.4	522
SC-4A	02/10/14	1 to 6	5.7	26.5
SC-4B	02/10/14	1 to 6	2,060	>2,400
SC-5A	02/10/14	10	4,328	>2,400
SC-5B	02/10/14	6	3,483	1,650
SC-6	02/19/14	1 to 10	0.8	39.4
SC-7	02/19/14	1 to 6	0.0	28.9
SC-8	02/19/14	10	NA	1,350
SC-9	02/19/14	6	NA	1,200

NA – not analyzed

*Per Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1

Laboratory analytical results for selected samples (SC-1A, SC-1B, SC-2 and SC-3) were used to confirm field sampling results during excavation activities. Benzene concentrations were reported at 0.066 mg/kg in SC-1A and 0.029 mg/kg in SC-2. Total BTEX concentrations were reported at 1.226 mg/kg in SC-1 and less than 0.20 mg/kg in SC-2. TPH concentrations (as GRO/DRO/MRO) ranged from less than 63.4 mg/kg in SC-1B up to 1,400 mg/kg in SC-2. Results are presented in Table 3 and on Figure 4. The laboratory analytical report is attached.

Table 3. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Ute #24 Excavation Clearance Activities, February 2014

<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>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>	<i>MRO (mg/kg)</i>
<i>UMUT (COGCC) Standards*</i>			0.17	360.17		500	
SC-1A	2/10/14	1 to 10	0.066	1.226	15	170	690
SC-1B	2/10/14	1 to 10	NA	NA	<3.5	<9.9	<50
SC-2	2/10/14	1 to 10	0.029	<0.235	2.6	200	1,200
SC-3	2/10/14	1 to 6	NA	NA	<2.7	11	110

NA – not analyzed

*Per Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1

Laboratory analytical results for LC-1, LC-2, and LC-3 were used to confirm field sampling results from the final excavation limits. Benzene concentrations were reported below laboratory detection limits, and total BTEX concentrations ranged from 0.357 mg/kg in LC-2 up to 5.51 mg/kg in LC-3. TPH concentrations as GRO/DRO/MRO ranged from 230 mg/kg in LC-1 up to 1,960 mg/kg in LC-2. PAHs were reported in LC-1, LC-2 and LC-3 below the laboratory detection limits. Electrical conductivity ranged from 1,400 µmhos/cm in LC-1 up to 1,500 µmhos/cm in LC-1 and LC-2. SAR values ranged between 4.4 and 8.7.

Arsenic concentrations ranged from 2.6 mg/kg up to 4.3 mg/kg for the final excavation limits, and background arsenic concentrations were reported at 2.6 mg/kg. Other metals concentrations are presented below in Table 4, and laboratory analytical reports are attached.

Table 4. Soil Laboratory Analytical Results
Ute #24 Final Excavation Limits, February 2014

<i>Analytical Parameter</i>	<i>Results LC-1</i>	<i>Results LC-2</i>	<i>Results LC-3</i>	<i>Results Background</i>	<i>UMUT (COGCC) Standard*</i>
<i>Benzene (mg/kg)</i>	<0.048	<0.049	<0.12	NA	0.17
<i>Toluene (mg/kg)</i>	<0.048	0.057	0.75	NA	85
<i>Ethylbenzene (mg/kg)</i>	<0.048	<0.049	0.36	NA	100
<i>Total Xylenes (mg/kg)</i>	0.53	0.30	4.4	NA	175
<i>GRO (mg/kg)</i>	13	5.4	110	NA	500
<i>MRO (mg/kg)</i>	150	1,500	720	NA	

Analytical Parameter	Results LC-1	Results LC-2	Results LC-3	Results Background	UMUT (COGCC) Standard*
DRO (mg/kg)	67	450	430	NA	
Acenaphthene (mg/kg)	<0.020	<0.20	<0.040	NA	1,000
Anthracene (mg/kg)	<0.020	<0.20	<0.040	NA	1,000
Benzo(A)anthracene (mg/kg)	<0.020	<0.20	<0.040	NA	0.22
Benzo(B)fluoranthene (mg/kg)	<0.020	<0.20	<0.040	NA	0.22
Benzo(K)fluoranthene (mg/kg)	<0.020	<0.20	<0.040	NA	2.2
Benzo(A)pyrene (mg/kg)	<0.020	<0.20	<0.040	NA	0.022
Chrysene (mg/kg)	<0.020	<0.20	<0.040	NA	22
Dibenzo(A,H)anthracene(mg/kg)	<0.020	<0.20	<0.040	NA	0.022
Fluoranthene (mg/kg)	<0.020	<0.20	<0.040	NA	1,000
Fluorene (mg/kg)	<0.020	<0.20	<0.040	NA	1,000
Indeno(1,2,3,C,D)pyrene (mg/kg)	<0.020	<0.20	<0.040	NA	0.22
Naphthalene (mg/kg)	<0.020	<0.20	<0.040	NA	23
Pyrene (mg/kg)	<0.020	<0.20	<0.040	NA	1,000
Electrical Conductivity (µmhos/cm)	1,400	1,500	1,500	NA	<4,000
Sodium Adsorption Ratio	4.4	6.5	8.7	NA	<12
Arsenic (mg/kg)	2.6	2.6	4.3	2.5	0.39
Barium (mg/kg)	140	400	340	100	15,000
Cadmium (mg/kg)	<0.10	<0.10	0.14	<0.051	70
Chromium (III) (mg/kg)	5.4	5.8	7.5	7.1	120,000
Chromium (VI) (mg/kg)	<2.0	<2.0	<10	NA	23
Copper (mg/kg)	8.6	11	15	6.2	3,100
Lead (mg/kg)	7.1	8.5	9.0	5.3	400
Mercury (mg/kg)	0.11	0.60	0.38	0.014	23
Nickel (mg/kg)	7.7	7.4	13	6.5	1,600
Selenium (mg/kg)	<2.6	<2.6	<2.6	<1.4	390
Silver (mg/kg)	<0.26	<0.26	<0.26	<0.096	390
Zinc (mg/kg)	35	37	57	29	23,000

*Per Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1

3.0 Conclusions and Recommendations

On December 20, 2013, AES conducted an initial assessment of petroleum impacted soils associated with a 393 bbl hydrocarbon spill from the 500 bbl production tank at the Ute #24. The COGCC Rules 900 Series E&P Waste Management Table 910-1 was utilized to set action levels for the release.

Field screening VOC results from the initial assessment in December 2013 ranged from 8.8 ppm in SB-7 to 3,375 ppm in SB-9. Field TPH concentrations were reported above the UMUT standard of 500 mg/kg in 4 soil borings, with the highest TPH concentration of 14,900 mg/kg reported in SB-2. Based on field sampling results, excavation of the impacted areas was recommended.

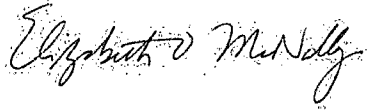
Environmental clearance of the final excavation areas were completed during February 2014. Field TPH concentrations were below applicable UMUT thresholds for the final walls of the excavation. However the final base samples reported field TPH concentrations at 1,200 mg/kg and 1,350 mg/kg. Laboratory analytical results from February 19, 2014, reported all COGCC 910-1 analytical parameters below applicable UMUT standards except TPH and arsenic. Laboratory analytical results indicated that the northwest side (LC-1) and the base (LC-3) of the final excavation exceed UMUT standards for TPH concentrations with 1,960 mg/kg and 1,260 mg/kg, respectively. Note, further excavation toward the north was restricted due to the close proximity of the wellhead, and depth of the excavation was limited due to a competent sandstone layer at 6 to 10 feet bgs. Soil arsenic concentrations for excavation samples and the background sample were reported above the UMUT threshold of 0.39 mg/kg (which is based on the COGCC residential standard); native soil arsenic concentrations in the general vicinity are known to be elevated, and the composite background sample collected at the site was reported at 2.5 mg/kg.

Crystal Tafoya of CoP obtained approval to backfill on March 3, 2014, from Ryan Joyner of the BLM following application of Quantum Growth™ to the excavation. No further work is recommended at the Ute #24. If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,



Emilee Skyles
Staff Geologist




Elizabeth McNally, PE

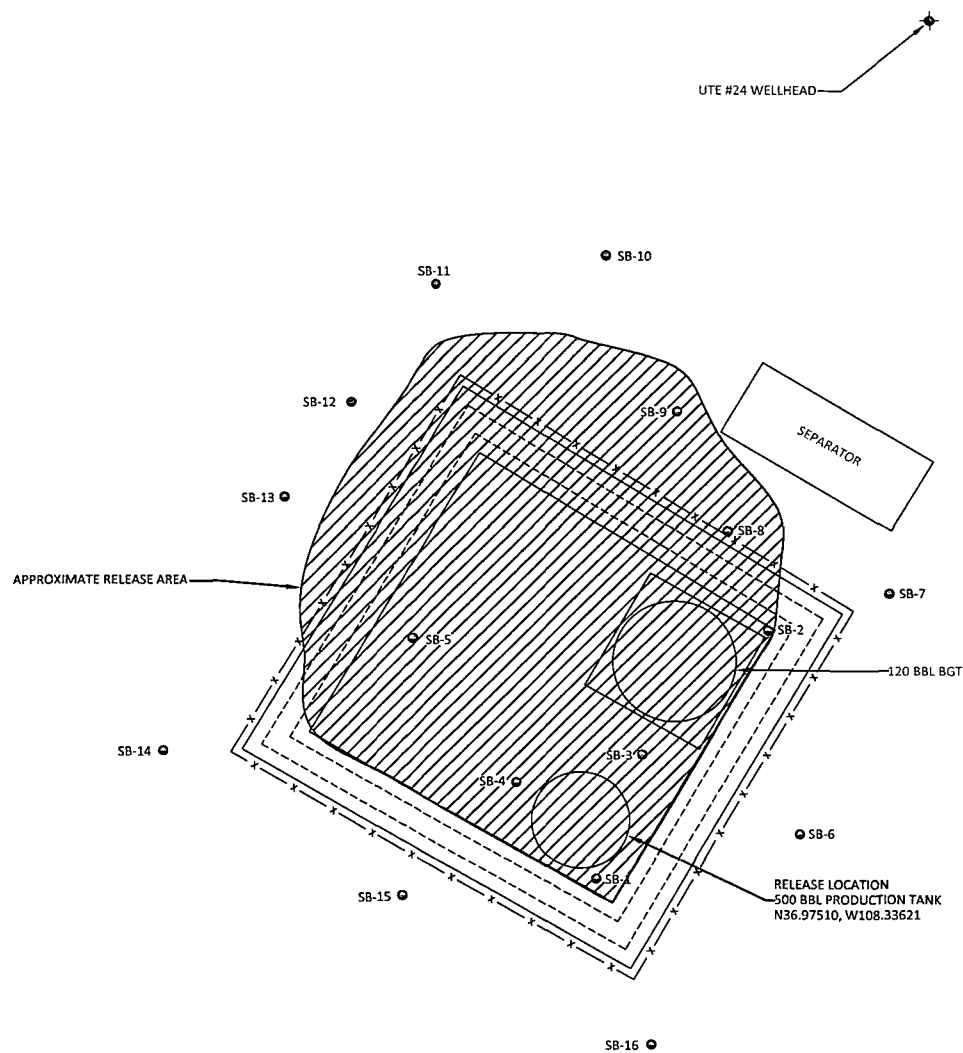
Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, December 2013
Figure 3. Initial Assessment Sample Locations and Results, December 2013
Figure 4. Final Excavation Sample Locations and Results, February 2014
AES Field Sampling Reports 122013
AES Field Sampling Reports 021014
AES Field Sampling Reports 021914
Hall Laboratory Analytical Report 1401948
Hall Laboratory Analytical Report 1402360
Hall Laboratory Analytical Report 1402769
Hall Laboratory Analytical Report 1403247

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Projects\ConocoPhillips\Ute #24 Release\Ute #24 Release and Final Excavation Report 052914.docx



 <p>AES</p> <p>Animas Environmental Services, LLC</p>	DRAWN BY:	DATE DRAWN:	<p>FIGURE 2</p> <p>AERIAL SITE MAP DECEMBER 2013</p> <p>ConocoPhillips UTE #24</p> <p>SE¼ NW¼, SECTION 20, T32N, R14W SAN JUAN COUNTY, NEW MEXICO N36.97538, W108.33606</p>
	S. Glasses	December 23, 2013	
	REVISIONS BY:	DATE REVISED:	
	C. Lameman	May 1, 2014	
	CHECKED BY:	DATE CHECKED:	
	D. Watson	May 1, 2014	
	APPROVED BY:	DATE APPROVED:	
	E. McNally	May 1, 2014	



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
UMUT STANDARDS			--	500
SB-1	12/20/13	Surface	1,884	>2,500
		0.75	1,530	NA
SB-2	12/20/13	Surface	2,951	NA
		0.5	2,155	14,900
SB-3	12/20/13	Surface	1,975	NA
		0.5	2,117	NA
SB-4	12/20/13	Surface	2,450	NA
		0.75	1,707	>2,500
SB-5	12/20/13	Surface	408	NA
		1.0	97.3	NA
		1.5	1,477	>2,500
SB-6	12/20/13	Surface	27.2	221
SB-7	12/20/13	Surface	8.8	NA
SB-8	12/20/13	Surface	3,154	NA
SB-9	12/20/13	Surface	3,375	NA
SB-10	12/20/13	Surface	960	51.6
SB-11	12/20/13	Surface	334	133
SB-12	12/20/13	Surface	67.0	176
SB-13	12/20/13	Surface	22.2	NA
SB-14	12/20/13	Surface	17.8	NA
SB-15	12/20/13	Surface	15.6	NA
SB-16	12/20/13	Surface	9.6	NA
NA - NOT ANALYZED				

FIGURE 3

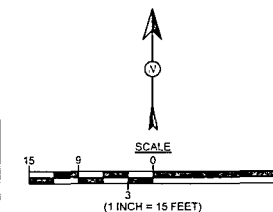
**INITIAL ASSESSMENT SAMPLE
LOCATIONS AND RESULTS
DECEMBER 2013**
ConocoPhillips
UTE #24
SE 1/4, SECTION 20, T32N, R14W
SAN JUAN COUNTY, NEW MEXICO
N36.97538, W108.33606



DRAWN BY: C. Lameman	DATE DRAWN: December 23, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 1, 2014
CHECKED BY: D. Watson	DATE CHECKED: May 1, 2014
APPROVED BY: E. McNally	DATE APPROVED: May 1, 2014

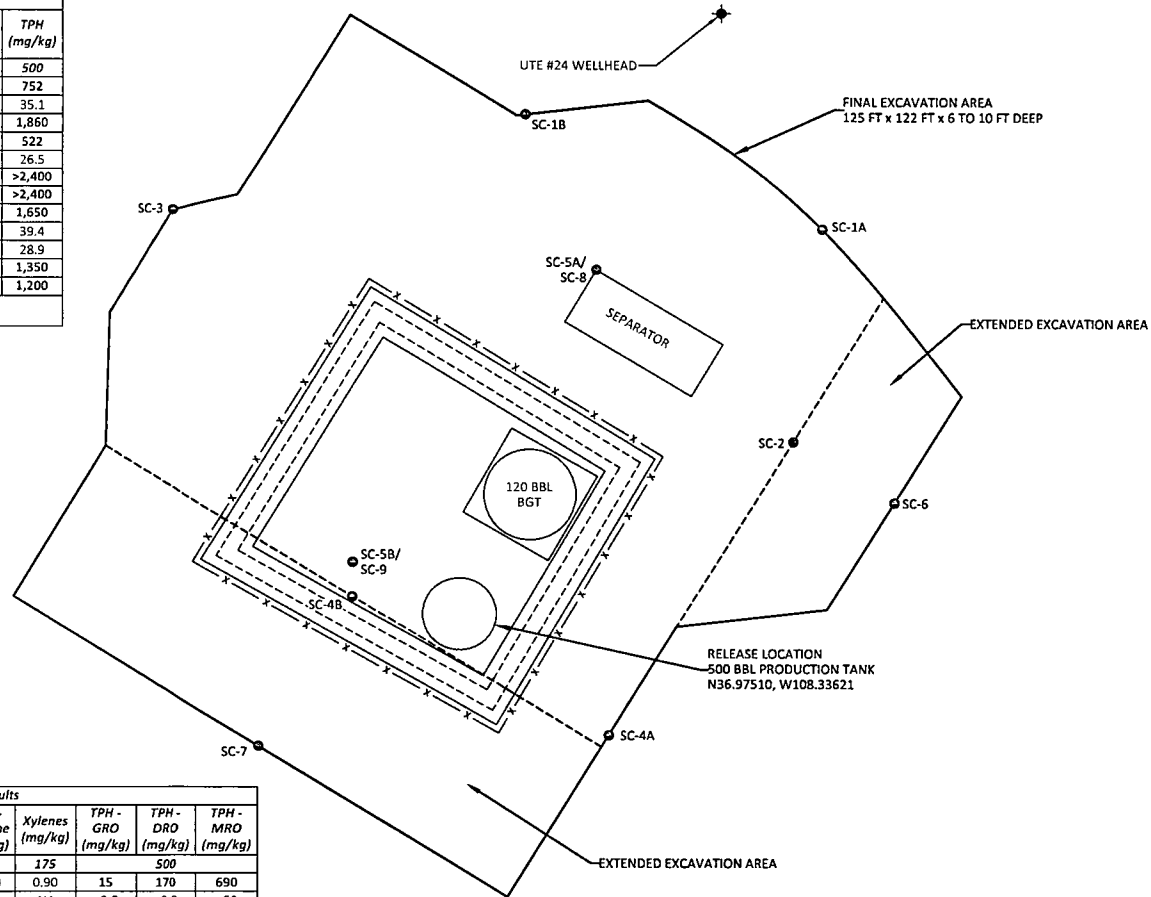
LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- x— FENCE



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
UMUT STANDARDS			--	500
SC-1A	2/10/14	1 to 10	419	752
SC-1B	2/10/14	1 to 10	2.4	35.1
SC-2	2/10/14	1 to 10	26.5	1,860
SC-3	2/10/14	1 to 6	3.4	522
SC-4A	2/10/14	1 to 6	5.7	26.5
SC-4B	2/10/14	1 to 6	2,060	>2,400
SC-5A	2/10/14	10	4,328	>2,400
SC-5B	2/10/14	6	3,483	1,650
SC-6	2/19/14	1 to 10	0.8	39.4
SC-7	2/19/14	1 to 6	0.0	28.9
SC-8	2/19/14	10	NA	1,350
SC-9	2/19/14	6	NA	1,200

ALL SAMPLES WERE COMPOSITE SAMPLES.
NA - NOT ANALYZED



BACKGROUND #1
N36.97509, W108.33662

Laboratory Analytical Results									
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
UMUT STANDARDS			0.17	85	100	175	500		
SC-1A	2/10/14	1 to 10	0.066	0.20	0.060	0.90	15	170	690
SC-1B	2/10/14	1 to 10	NA	NA	NA	NA	<3.5	<9.9	<50
SC-2	2/10/14	1 to 10	0.029	0.053	<0.023	0.13	2.6	200	1,200
SC-3	2/10/14	1 to 6	NA	NA	NA	NA	<2.7	11	110
LC-1	2/19/14	--	<0.048	<0.048	<0.048	0.53	13	67	150
LC-2	2/19/14	--	<0.049	0.057	<0.049	0.30	5.4	450	1,500
LC-3	2/19/14	--	<0.12	0.75	0.36	4.4	110	430	720

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.
LC-1 WAS A COMPOSITE SAMPLE OF SC-4A, SC-6, & SC-7. LC-2 WAS A COMPOSITE SAMPLE OF SC-1A, SC-1B, & SC-3. LC-3 WAS A COMPOSITE SAMPLE OF SC-8 & SC-9.

FIGURE 4

**FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
FEBRUARY 2014**
ConocoPhillips
UTE #24
SE¼ NW¼, SECTION 20, T32N, R14W
SAN JUAN COUNTY, NEW MEXICO
N36.97538, W108.33606

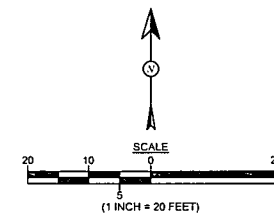


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: February 19, 2014
REVISIONS BY: C. Lameman	DATE REVISED: May 1, 2014
CHECKED BY: D. Watson	DATE CHECKED: May 1, 2014
APPROVED BY: E. McNally	DATE APPROVED: May 1, 2014

LEGEND

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



AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Ute #24

Date: 12/20/2013

Matrix: Soil

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ surface	12/20/2013	9:34	1,884	>2,500	12:20	20.0	1	DAW
SB-1 @ 0.75	12/20/2013	9:45	1,530	Not Analyzed for TPH				
SB-2 @ surface	12/20/2013	10:20	2,951	Not Analyzed for TPH				
SB-2 @ 0.5	12/20/2013	10:30	2,155	14,900	12:24	200	10	DAW
SB-3 @ surface	12/20/2013	10:24	1,975	Not Analyzed for TPH				
SB-3 @ 0.5	12/20/2013	10:26	2,117	Not Analyzed for TPH				
SB-4 @ surface	12/20/2013	9:47	2,450	Not Analyzed for TPH				
SB-4 @ 0.75	12/20/2013	9:51	1,707	>2,500	12:26	20.0	1	DAW
SB-5 @ surface	12/20/2013	10:05	408	Not Analyzed for TPH				
SB-5 @ 1'	12/20/2013	10:10	97.3	Not Analyzed for TPH				
SB-5 @ 1.5'	12/20/2013	10:13	1,477	>2,500	12:31	20.0	1	DAW
SB-6 @ surface	12/20/2013	11:00	27.2	221	12:34	20.0	1	DAW
SB-7 @ surface	12/20/2013	11:05	8.8	Not Analyzed for TPH				
SB-8 @ surface	12/20/2013	11:15	3,154	Not Analyzed for TPH				
SB-9 @ surface	12/20/2013	11:17	3,375	Not Analyzed for TPH				
SB-10 @ surface	12/20/2013	11:18	960	51.6	12:36	20.0	1	DAW
SB-11 @ surface	12/20/2013	11:19	334	133	12:40	20.0	1	DAW
SB-12 @ surface	12/20/2013	11:21	67.0	176	12:43	20.0	1	DAW
SB-13 @ surface	12/20/2013	11:23	22.2	Not Analyzed for TPH				
SB-14 @ surface	12/20/2013	11:25	17.8	Not Analyzed for TPH				
SB-15 @ surface	12/20/2013	11:30	15.6	Not Analyzed for TPH				
SB-16 @ surface	12/20/2013	11:35	9.6	Not Analyzed for TPH				

DF	Dilution Factor
NA	Not Analyzed
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: 

**Field TPH concentrations recorded may be below PQL.*

AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Ute #24

Date: 2/10/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1A	2/10/2014	11:50	North Wall (East)	419	12:48	752	20.0	1	KC
SC-1B	2/10/2014	11:59	North Wall (West)	2.4	12:53	35.1	20.0	1	KC
SC-2	2/10/2014	12:22	East Wall	26.5	13:05	1,860	20.0	1	KC
SC-3	2/10/2014	12:12	West Wall	3.4	13:00	522	20.0	1	KC
SC-4A	2/10/2014	12:30	South Wall (East)	5.7	13:20	26.5	20.0	1	KC
SC-4B	2/10/2014	12:39	South Wall (West)	2,060	13:22	>2,400	20.0	1	KC
SC-5A	2/10/2014	12:45	Base (Northeast)	4,328	13:25	>2,400	20.0	1	KC
SC-5B	2/10/2014	12:51	Base (Southwest)	3,483	13:28	1,653	20.0	1	KC

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Kelany Christman*

AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Ute #24

Date: 2/19/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	2/19/2014	9:30	East Wall	0.8	10:10	39.4	20.0	1	EMS
SC-7	2/19/2014	9:35	South Wall (West)	0.0	10:13	28.9	20.0	1	EMS
SC-8	2/19/2014	10:45	Base (Northeast)	NA	11:46	1,345	20.0	1	EMS
SC-9	2/19/2014	10:52	Base (Southwest)	NA	11:48	1,198	20.0	1	EMS

DF Dilution Factor

Total Petroleum Hydrocarbons - USEPA 418.1

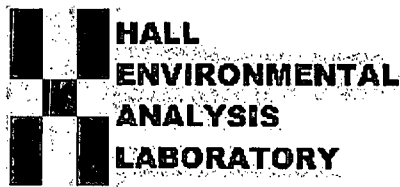
NA Not Analyzed

ND Not Detected at the Reporting Limit

Analyst: *Erin SkL*

PQL Practical Quantitation Limit

**Field TPH concentrations recorded may be below PQL.*



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

January 28, 2014

Debbie Watson
Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: COP Ute #24

OrderNo.: 1401948

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/23/2014 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'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1401948

Date Reported: 1/28/2014

CLIENT: Animas Environmental

Client Sample ID: W-1

Project: COP Ute #24

Collection Date: 1/22/2014 5:00:00 PM

Lab ID: 1401948-001

Matrix: AQUEOUS

Received Date: 1/23/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: BCN
Diesel Range Organics (DRO)	21	1.0		mg/L	1	1/27/2014 4:10:52 PM	11405
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/27/2014 4:10:52 PM	11405
Surr: DNOP	133	62.7-145		%REC	1	1/27/2014 4:10:52 PM	11405
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	22	0.25		mg/L	5	1/27/2014 10:45:08 AM	R16315
Surr: BFB	129	80.4-118	S	%REC	5	1/27/2014 10:45:08 AM	R16315
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	3100	100		µg/L	100	1/27/2014 11:45:34 AM	R16315
Toluene	5100	100		µg/L	100	1/27/2014 11:45:34 AM	R16315
Ethylbenzene	130	5.0		µg/L	5	1/27/2014 10:45:08 AM	R16315
Xylenes, Total	1400	200		µg/L	100	1/27/2014 11:45:34 AM	R16315
Surr: 4-Bromofluorobenzene	116	85-136		%REC	5	1/27/2014 10:45:08 AM	R16315
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	1900	50	*	mg/L	100	1/23/2014 3:16:46 PM	R16279
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	6210	200	*	mg/L	1	1/24/2014 2:20:00 PM	11378

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401948

28-Jan-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID: A5	SampType: CCV_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16279	RunNo: 16279								
Prep Date:	Analysis Date: 1/23/2014	SeqNo: 469294		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.8	90	110			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R16279	RunNo: 16279								
Prep Date:	Analysis Date: 1/23/2014	SeqNo: 469296		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R16279	RunNo: 16279								
Prep Date:	Analysis Date: 1/23/2014	SeqNo: 469297		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.7	90	110			

Sample ID: A6	SampType: CCV_6	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16279	RunNo: 16279								
Prep Date:	Analysis Date: 1/23/2014	SeqNo: 469306		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			

Sample ID: A4	SampType: CCV_4	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16279	RunNo: 16279								
Prep Date:	Analysis Date: 1/23/2014	SeqNo: 469318		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.9	90	110			

Sample ID: A5	SampType: CCV_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16279	RunNo: 16279								
Prep Date:	Analysis Date: 1/23/2014	SeqNo: 469330		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.8	90	110			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401948

28-Jan-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	A6	SampType:	CCV_6	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R16279	RunNo:	16279					
Prep Date:		Analysis Date:	1/23/2014	SeqNo:	469342	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R16279	RunNo:	16279					
Prep Date:		Analysis Date:	1/24/2014	SeqNo:	469352	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R16279	RunNo:	16279					
Prep Date:		Analysis Date:	1/24/2014	SeqNo:	469353	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.1	90	110			

Sample ID	A4	SampType:	CCV_4	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R16279	RunNo:	16279					
Prep Date:		Analysis Date:	1/24/2014	SeqNo:	469354	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.7	90	110			

Sample ID	A5	SampType:	CCV_5	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R16279	RunNo:	16279					
Prep Date:		Analysis Date:	1/24/2014	SeqNo:	469366	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.8	0.50	8.000	0	98.0	90	110			

Sample ID	A6	SampType:	CCV_6	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R16279	RunNo:	16279					
Prep Date:		Analysis Date:	1/24/2014	SeqNo:	469378	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401948

28-Jan-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	A4		SampType: CCV_4		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R16279		RunNo: 16279					
Prep Date:			Analysis Date: 1/24/2014		SeqNo: 469386		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.9	90	110			

Sample ID	A5		SampType: CCV_5		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R16279		RunNo: 16279					
Prep Date:			Analysis Date: 1/24/2014		SeqNo: 469396		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.8	0.50	8.000	0	97.5	90	110			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401948

28-Jan-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	LCS-11405		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range					
Client ID:	LCSW		Batch ID: 11405		RunNo: 16307					
Prep Date:	1/27/2014		Analysis Date: 1/27/2014		SeqNo: 470608		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.3	1.0	5.000	0	126	73.3	145			
Surr: DNOP	0.68		0.5000		136	62.7	145			

Sample ID	LCSD-11405		SampType: LCSD		TestCode: EPA Method 8015D: Diesel Range					
Client ID:	LCSS02		Batch ID: 11405		RunNo: 16307					
Prep Date:	1/27/2014		Analysis Date: 1/27/2014		SeqNo: 470609		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.7	1.0	5.000	0	134	73.3	145	5.85	20	
Surr: DNOP	0.70		0.5000		139	62.7	145	0	0	

Sample ID	MB-11405		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range					
Client ID:	PBW		Batch ID: 11405		RunNo: 16307					
Prep Date:	1/27/2014		Analysis Date: 1/27/2014		SeqNo: 470610		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.3		1.000		128	62.7	145			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401948

28-Jan-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBW	Batch ID: R16315	RunNo: 16315								
Prep Date:	Analysis Date: 1/27/2014	SeqNo: 470659 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		89.6	80.4	118			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSW	Batch ID: R16315	RunNo: 16315								
Prep Date:	Analysis Date: 1/27/2014	SeqNo: 470660 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	103	80	120			
Surr: BFB	20		20.00		97.7	80.4	118			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401948

28-Jan-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R16315	RunNo:	16315					
Prep Date:		Analysis Date:	1/27/2014	SeqNo:	470684	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	85	136			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R16315	RunNo:	16315					
Prep Date:		Analysis Date:	1/27/2014	SeqNo:	470685	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.9	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	99.2	80	120			
Xylenes, Total	61	2.0	60.00	0	102	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	85	136			

Sample ID	1401948-001BMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	W-1	Batch ID:	R16315	RunNo:	16315					
Prep Date:		Analysis Date:	1/27/2014	SeqNo:	470688	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	5100	100	2000	3072	99.1	73.4	119			
Toluene	7100	100	2000	5075	99.5	80	120			
Ethylbenzene	2200	100	2000	123.2	103	80	120			
Xylenes, Total	7600	200	6000	1430	104	80	120			
Surr: 4-Bromofluorobenzene	2200		2000		111	85	136			

Sample ID	1401948-001BMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	W-1	Batch ID:	R16315	RunNo:	16315					
Prep Date:		Analysis Date:	1/27/2014	SeqNo:	470689	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	5000	100	2000	3072	96.0	73.4	119	1.24	20	
Toluene	7000	100	2000	5075	95.5	80	120	1.14	20	
Ethylbenzene	2200	100	2000	123.2	103	80	120	0.0643	20	
Xylenes, Total	7600	200	6000	1430	103	80	120	0.293	20	
Surr: 4-Bromofluorobenzene	2200		2000		110	85	136	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401948

28-Jan-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	MB-11378	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	11378	RunNo:	16290					
Prep Date:	1/23/2014	Analysis Date:	1/24/2014	SeqNo:	469573	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-11378	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	11378	RunNo:	16290					
Prep Date:	1/23/2014	Analysis Date:	1/24/2014	SeqNo:	469574	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1401948

RcptNo: 1

Received by/date:	<i>[Signature]</i>	<i>01/23/14</i>
Logged By:	Lindsay Mangin	1/23/2014 10:00:00 AM
Completed By:	Lindsay Mangin	1/23/2014 10:35:56 AM
Reviewed By:	<i>mg</i>	<i>01/23/14</i>

Chain of Custody

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

Log In

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

3 x 40ml VOA's 1 vial bubbles 01/24/14

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

Special Handling (if applicable)

- 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:			


- Additional remarks:

18. Cooler Information

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

Chain-of-Custody Record		Turn-Around Time:
Client: <u>Animas Environmental Services</u>	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>ASAP</u>	
Mailing Address: <u>624 E. Comanche</u>	Project Name: _____	
<u>Farmington, NM 87401</u>	CoP Ute # <u>24</u>	
Phone #: <u>505-564-2281</u>	Project #: _____	
email or Fax#: _____	Project Manager: _____	
QA/QC Package:	_____	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	<u>D. Watson</u>	
Accreditation	Sampler: <u>H. Woods / L. Lamone</u>	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type) _____	Sample Temperature: <u>10</u>	

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/23/14	6:34	Heather M. Woods	Mustie Waite	11/23/14	6:34
Date:	Time:	Relinquished by:	Received by:	Date	Time
12/31/14	6:45	Mustie Waite		01/23/15	14:00



www.hallenvironmental.com

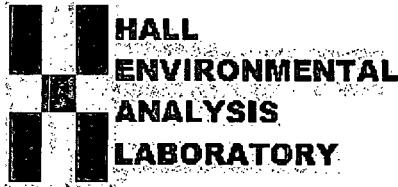
14901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

Remarks:	Bill to ConocoPhillips
----------	------------------------



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

February 18, 2014

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX (505) 324-2022

RE: CoP Ute #24

OrderNo.: 1402360

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/11/2014 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 **1402360**

Date Reported: 2/18/2014

CLIENT: Animas Environmental Services**Client Sample ID:** SC-1A**Project:** CoP Ute #24**Collection Date:** 2/10/2014 11:50:00 AM**Lab ID:** 1402360-001**Matrix:** MEOH (SOIL)**Received Date:** 2/11/2014 10:04:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	170	100		mg/Kg	10	2/11/2014 12:22:11 PM	11665
Motor Oil Range Organics (MRO)	690	500		mg/Kg	10	2/11/2014 12:22:11 PM	11665
Surr: DNOP	0	66-131	S	%REC	10	2/11/2014 12:22:11 PM	11665
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	15	3.7		mg/Kg	1	2/11/2014 4:36:19 PM	R16663
Surr: BFB	147	74.5-129	S	%REC	1	2/11/2014 4:36:19 PM	R16663
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	0.066	0.037		mg/Kg	1	2/11/2014 4:36:19 PM	R16663
Toluene	0.20	0.037		mg/Kg	1	2/11/2014 4:36:19 PM	R16663
Ethylbenzene	0.060	0.037		mg/Kg	1	2/11/2014 4:36:19 PM	R16663
Xylenes, Total	0.90	0.074		mg/Kg	1	2/11/2014 4:36:19 PM	R16663
Surr: 4-Bromofluorobenzene	93.7	80-120		%REC	1	2/11/2014 4:36:19 PM	R16663

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1402360**

Date Reported: 2/18/2014

CLIENT: Animas Environmental Services

Client Sample ID: SC-1B

Project: CoP Ute #24

Collection Date: 2/10/2014 11:59:00 AM

Lab ID: 1402360-002

Matrix: MEOH (SOIL)

Received Date: 2/11/2014 10:04:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/11/2014 12:44:14 PM	11665
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/11/2014 12:44:14 PM	11665
Surr: DNOP	90.9	66-131		%REC	1	2/11/2014 12:44:14 PM	11665
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	2/11/2014 12:19:09 PM	R16663
Surr: BFB	82.2	74.5-129		%REC	1	2/11/2014 12:19:09 PM	R16663

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1402360

Date Reported: 2/18/2014

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: CoP Ute #24

Collection Date: 2/10/2014 12:22:00 PM

Lab ID: 1402360-003

Matrix: MEOH (SOIL)

Received Date: 2/11/2014 10:04:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	200	99		mg/Kg	10	2/11/2014 1:06:18 PM	11665
Motor Oil Range Organics (MRO)	1200	500		mg/Kg	10	2/11/2014 1:06:18 PM	11665
Surr: DNOP	0	66-131	S	%REC	10	2/11/2014 1:06:18 PM	11665
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	2.6	2.3		mg/Kg	1	2/11/2014 12:47:44 PM	R16663
Surr: BFB	85.8	74.5-129		%REC	1	2/11/2014 12:47:44 PM	R16663
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	0.029	0.023		mg/Kg	1	2/11/2014 12:47:44 PM	R16663
Toluene	0.053	0.023		mg/Kg	1	2/11/2014 12:47:44 PM	R16663
Ethylbenzene	ND	0.023		mg/Kg	1	2/11/2014 12:47:44 PM	R16663
Xylenes, Total	0.13	0.045		mg/Kg	1	2/11/2014 12:47:44 PM	R16663
Surr: 4-Bromofluorobenzene	88.7	80-120		%REC	1	2/11/2014 12:47:44 PM	R16663

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
	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
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: CoP Ute #24

Collection Date: 2/10/2014 12:12:00 PM

Lab ID: 1402360-004

Matrix: ME0H(SOIL)

Received Date: 2/11/2014 10:04:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	11	10		mg/Kg	1	2/11/2014 1:28:18 PM	11665
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	2/11/2014 1:28:18 PM	11665
Surr: DNOP	101	66-131		%REC	1	2/11/2014 1:28:18 PM	11665
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	2/11/2014 1:16:17 PM	R16663
Surr: BFB	84.4	74.5-129		%REC	1	2/11/2014 1:16:17 PM	R16663

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402360

18-Feb-14

Client: Animas Environmental Services

Project: CoP Ute #24

Sample ID	LCS-11665		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 11665		RunNo: 16646					
Prep Date:	2/11/2014		Analysis Date: 2/11/2014		SeqNo: 479854		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	93.4	60.8	145			
Surr: DNOP	4.2		5.000		83.8	66	131			

Sample ID	MB-11665		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 11665		RunNo: 16646					
Prep Date:	2/11/2014		Analysis Date: 2/11/2014		SeqNo: 479855		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.9	66	131			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402360

18-Feb-14

Client: Animas Environmental Services

Project: CoP Ute #24

Sample ID	B5	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R16663	RunNo:	16663					
Prep Date:		Analysis Date:	2/11/2014	SeqNo:	480379	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	810		1000		81.0	74.5	129			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R16663	RunNo:	16663					
Prep Date:		Analysis Date:	2/11/2014	SeqNo:	480380	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.0	74.5	126			
Surr: BFB	880		1000		88.2	74.5	129			

Sample ID	1402360-004A MS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-3	Batch ID:	R16663	RunNo:	16663					
Prep Date:		Analysis Date:	2/11/2014	SeqNo:	480381	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	15	2.7	13.30	0	113	69.5	145			
Surr: BFB	490		532.2		92.4	74.5	129			

Sample ID	1402360-004A MSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-3	Batch ID:	R16663	RunNo:	16663					
Prep Date:		Analysis Date:	2/11/2014	SeqNo:	480382	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	15	2.7	13.30	0	111	69.5	145	2.57	20	
Surr: BFB	500		532.2		93.2	74.5	129	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402360

18-Feb-14

Client: Animas Environmental Services

Project: CoP Ute #24

Sample ID	B5		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R16663		RunNo:	16663			
Prep Date:			Analysis Date:	2/11/2014		SeqNo:	480402	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	80	120			

Sample ID	100NG BTEX LCS		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R16663		RunNo:	16663			
Prep Date:			Analysis Date:	2/11/2014		SeqNo:	480403	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.7	80	120			
Toluene	0.99	0.050	1.000	0	98.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	80	120			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



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: 1402360

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

2/11/2014 10:04:00 AM

Completed By: Ashley Gallegos

2/11/2014 10:32:12 AM

Reviewed By: IO

02/11/2014

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 °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.9	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental ServicesMailing Address: 624 Comanche StPhone #: 505-564-2281

Email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation

☐ NELAP☐ Other _____☐ EDD (Type) _____☐ Standard☒ Rush Same Day

Project Name:

CoP Ute #24

Project #:

Project Manager:

D. Watson

Sampler:

On Ice:

☒ Yes☐ No

Sample Temperature:

7

Container Type and #

Preservative Type

HEAL No.

1402360

Date Time Matrix Sample Request ID

Date	Time	Matrix	Sample Request ID
10/14	11:50	Soil	SC-1A
	11:59	Soil	SC-1B
	12:22	Soil	SC-2
	12:12	Soil	SC-3

Container Type and #	Preservative Type
1-4oz MeOH	non MeOH

-601-002-003-004

BTEX + MTBE + TPH (8021)

BTEX + MTBE + TPH (Gas only)

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, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Date	Time	Relinquished by:
10/14	1710	Kelley Chisum

Date	Time	Received by:
10/14	1710	Christina Watts

Date	Time	Relinquished by:
10/14	1730	Christina Watts

Date	Time	Received by:
02/11/14	1004	John Gallardo

Remarks:

HALL ENVIRONMENTAL .
ANALYSIS LABORATORY

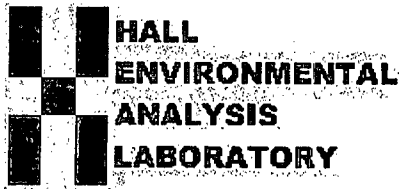
www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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*

March 03, 2014

Debbie Watson

Animas Environmental

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP Ute #24

OrderNo.: 1402769

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/20/2014 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", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1402769

Date Reported: 3/3/2014

CLIENT: Animas Environmental

Client Sample ID: LC-1

Project: CoP Ute #24

Collection Date: 2/19/2014 2:45:00 PM

Lab ID: 1402769-001

Matrix: SOIL

Received Date: 2/20/2014 10:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	67	9.9		mg/Kg	1	2/24/2014 10:04:49 AM	11848
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	2/24/2014 10:04:49 AM	11848
Surr: DNOP	98.2	66-131		%REC	1	2/24/2014 10:04:49 AM	11848
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	13	4.8		mg/Kg	1	2/21/2014 3:07:20 PM	11836
Surr: BFB	131	74.5-129	S	%REC	1	2/21/2014 3:07:20 PM	11836
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.048		mg/Kg	1	2/21/2014 3:07:20 PM	11836
Toluene	ND	0.048		mg/Kg	1	2/21/2014 3:07:20 PM	11836
Ethylbenzene	ND	0.048		mg/Kg	1	2/21/2014 3:07:20 PM	11836
Xylenes, Total	0.53	0.095		mg/Kg	1	2/21/2014 3:07:20 PM	11836
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	2/21/2014 3:07:20 PM	11836
EPA METHOD 7471: MERCURY							Analyst: JML
Mercury	0.11	0.033		mg/Kg	1	2/24/2014 4:30:44 PM	11863
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Arsenic	2.6	2.6		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Barium	140	0.10		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Cadmium	ND	0.10		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Chromium	5.4	0.31		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Copper	8.6	0.31		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Lead	7.1	0.26		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Nickel	7.7	0.52		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Selenium	ND	2.6		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Silver	ND	0.26		mg/Kg	1	2/27/2014 1:25:56 PM	11890
Zinc	35	2.6		mg/Kg	1	2/27/2014 1:25:56 PM	11890
SAR SOLUBLE CATIONS							Analyst: ELS
Calcium	550	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Magnesium	210	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Sodium	480	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Sodium Adsorption Ratio	4.4	0			1	2/27/2014 7:46:00 AM	11886
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Acenaphthene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Fluorene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Anthracene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Fluoranthene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1402769

Date Reported: 3/3/2014

CLIENT: Animas Environmental

Client Sample ID: LC-1

Project: CoP Ute #24

Collection Date: 2/19/2014 2:45:00 PM

Lab ID: 1402769-001

Matrix: SOIL

Received Date: 2/20/2014 10:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: PAHS							Analyst: JDC
Pyrene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Benz(a)anthracene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Chrysene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Benzo(b)fluoranthene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Benzo(a)pyrene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	1	2/26/2014 12:53:53 PM	11857
Surr: Benzo(e)pyrene	80.3	33.3-120		%REC	1	2/26/2014 12:53:53 PM	11857
Surr: N-hexadecane	65.3	33.8-110		%REC	1	2/26/2014 12:53:53 PM	11857
CONDUCTANCE							Analyst: JML
Specific Conductance	1400	1.0		µmhos/cm	1	2/21/2014 4:41:00 PM	R16884

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1402769

Date Reported: 3/3/2014

CLIENT: Animas Environmental

Client Sample ID: LC-2

Project: CoP Ute #24

Collection Date: 2/19/2014 2:50:00 PM

Lab ID: 1402769-002

Matrix: SOIL

Received Date: 2/20/2014 10:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	450	100		mg/Kg	10	2/24/2014 11:11:14 AM	11848
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	2/24/2014 11:11:14 AM	11848
Surr: DNOP	0	66-131	S	%REC	10	2/24/2014 11:11:14 AM	11848
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	5.4	4.9		mg/Kg	1	2/21/2014 12:44:18 PM	11836
Surr: BFB	95.3	74.5-129		%REC	1	2/21/2014 12:44:18 PM	11836
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.049		mg/Kg	1	2/21/2014 12:44:18 PM	11836
Toluene	0.057	0.049		mg/Kg	1	2/21/2014 12:44:18 PM	11836
Ethylbenzene	ND	0.049		mg/Kg	1	2/21/2014 12:44:18 PM	11836
Xylenes, Total	0.30	0.099		mg/Kg	1	2/21/2014 12:44:18 PM	11836
Surr: 4-Bromofluorobenzene	87.4	80-120		%REC	1	2/21/2014 12:44:18 PM	11836
EPA METHOD 7471: MERCURY							Analyst: JML
Mercury	0.60	0.33		mg/Kg	10	2/24/2014 4:43:04 PM	11863
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Arsenic	2.6	2.6		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Barium	400	0.51		mg/Kg	5	2/27/2014 1:42:21 PM	11890
Cadmium	ND	0.10		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Chromium	5.8	0.31		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Copper	11	0.31		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Lead	8.5	0.26		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Nickel	7.4	0.51		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Selenium	ND	2.6		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Silver	ND	0.26		mg/Kg	1	2/27/2014 1:29:43 PM	11890
Zinc	37	2.6		mg/Kg	1	2/27/2014 1:29:43 PM	11890
SAR SOLUBLE CATIONS							Analyst: ELS
Calcium	320	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Magnesium	110	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Sodium	530	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Sodium Adsorption Ratio	6.5	0			1	2/27/2014 7:46:00 AM	11886
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Acenaphthene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Fluorene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Anthracene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Fluoranthene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857

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
	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
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: LC-2

Project: CoP Ute #24

Collection Date: 2/19/2014 2:50:00 PM

Lab ID: 1402769-002

Matrix: SOIL

Received Date: 2/20/2014 10:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: PAHS							Analyst: JDC
Pyrene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Benz(a)anthracene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Chrysene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Benzo(a)pyrene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	2/26/2014 2:03:34 PM	11857
Surr: Benzo(e)pyrene	113	33.3-120		%REC	1	2/26/2014 2:03:34 PM	11857
Surr: N-hexadecane	158	33.8-110	S	%REC	1	2/26/2014 2:03:34 PM	11857
CONDUCTANCE							Analyst: JML
Specific Conductance	1500	1.0		µmhos/cm	1	2/21/2014 4:41:00 PM	R16884

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	Page 4 of 15
	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	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1402769

Date Reported: 3/3/2014

CLIENT: Animas Environmental

Client Sample ID: LC-3

Project: CoP Ute #24

Collection Date: 2/19/2014 2:40:00 PM

Lab ID: 1402769-003

Matrix: SOIL

Received Date: 2/20/2014 10:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	430	100		mg/Kg	10	2/24/2014 11:33:26 AM	11848
Motor Oil Range Organics (MRO)	720	510		mg/Kg	10	2/24/2014 11:33:26 AM	11848
Surr: DNOP	0	66-131	S	%REC	10	2/24/2014 11:33:26 AM	11848
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	110	24		mg/Kg	5	2/25/2014 12:09:25 PM	11836
Surr: BFB	183	74.5-129	S	%REC	5	2/25/2014 12:09:25 PM	11836
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.12		mg/Kg	5	2/25/2014 12:09:25 PM	11836
Toluene	0.75	0.24		mg/Kg	5	2/25/2014 12:09:25 PM	11836
Ethylbenzene	0.36	0.24		mg/Kg	5	2/25/2014 12:09:25 PM	11836
Xylenes, Total	4.4	0.48		mg/Kg	5	2/25/2014 12:09:25 PM	11836
Surr: 4-Bromofluorobenzene	100	80-120		%REC	5	2/25/2014 12:09:25 PM	11836
EPA METHOD 7471: MERCURY							Analyst: JML
Mercury	0.38	0.17		mg/Kg	5	2/24/2014 4:52:47 PM	11863
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Arsenic	4.3	2.6		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Barium	340	0.51		mg/Kg	5	2/27/2014 1:43:38 PM	11890
Cadmium	0.14	0.10		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Chromium	7.5	0.31		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Copper	15	0.31		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Lead	9.0	0.26		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Nickel	13	0.51		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Selenium	ND	2.6		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Silver	ND	0.26		mg/Kg	1	2/27/2014 1:30:56 PM	11890
Zinc	57	2.6		mg/Kg	1	2/27/2014 1:30:56 PM	11890
SAR SOLUBLE CATIONS							Analyst: ELS
Calcium	270	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Magnesium	120	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Sodium	680	1.0		mg/L	1	2/27/2014 7:46:00 AM	11886
Sodium Adsorption Ratio	8.7	0			1	2/27/2014 7:46:00 AM	11886
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	0.15	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Acenaphthene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Fluorene	0.079	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Anthracene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Fluoranthene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1402769

Date Reported: 3/3/2014

CLIENT: Animas Environmental

Client Sample ID: LC-3

Project: CoP Ute #24

Collection Date: 2/19/2014 2:40:00 PM

Lab ID: 1402769-003

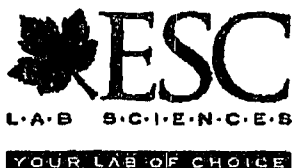
Matrix: SOIL

Received Date: 2/20/2014 10:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: PAHS							Analyst: JDC
Pyrene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Benz(a)anthracene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Chrysene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Benzo(b)fluoranthene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Benzo(k)fluoranthene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Benzo(a)pyrene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Dibenz(a,h)anthracene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg	1	2/26/2014 2:26:47 PM	11857
Surr: Benzo(e)pyrene	97.6	33.3-120		%REC	1	2/26/2014 2:26:47 PM	11857
Surr: N-hexadecane	152	33.8-110	S	%REC	1	2/26/2014 2:26:47 PM	11857
CONDUCTANCE							Analyst: JML
Specific Conductance	1500	1.0		µmhos/cm	1	2/21/2014 4:41:00 PM	R16884

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



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Fax (615) 758-5859

Tex I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 27, 2014

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : February 21, 2014
Description :
Sample ID : 1402769-001B LC-1
Collected By :
Collection Date : 02/19/14 14:45

ESC Sample # : L684335-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	02/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 02/27/14 10:19 Printed: 02/27/14 10:19



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Est. 1970

REPORT OF ANALYSIS

February 27, 2014

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : February 21, 2014
Description :
Sample ID : 1402769-002B LC-2
Collected By :
Collection Date : 02/19/14 14:45

ESC Sample # : 1684335-02

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	02/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

February 27, 2014

Date Received : February 21, 2014
Description :
Sample ID : 1402769-003B LC-3
Collected By :
Collection Date : 02/19/14 14:45

ESC Sample # : L684335-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	10.	mg/kg	3060A/7196A	02/26/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 02/27/14 10:19 Printed: 02/27/14 10:19
L684335-03 (CR6) - diluted due to sample color



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Est. 1970

YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE
Albuquerque, NM 87109

Quality Assurance Report
Level II

L684335

February 27, 2014

Laboratory Blank		Units		% Rec		Limit	Batch	Date Analyzed
Analyte	Result	Units		% Rec		Limit	Batch	Date Analyzed
Chromium, Hexavalent	< 2	mg/kg					WG708230	02/26/14 08:49
Duplicate		Units		% Rec		Limit	Batch	Date Analyzed
Analyte	Result	Units		% Rec		Limit	Batch	Date Analyzed
Chromium, Hexavalent	0.0	mg/kg		0.0		20	L684531-01	WG708230
Laboratory Control Sample		Units		% Rec		Limit	Batch	Date Analyzed
Analyte	Result	Units		% Rec		Limit	Batch	Date Analyzed
Chromium, Hexavalent	125	mg/kg		124		99-120	80-120	WG708230
Laboratory Control Sample Duplicate		Units		% Rec		Limit	Batch	Date Analyzed
Analyte	Result	Units		% Rec		Limit	Batch	Date Analyzed
Chromium, Hexavalent	123	mg/kg		124		98.0	80-120	0.810
Matrix Spike		Units		% Rec		Limit	Batch	Date Analyzed
Analyte	Result	Units		% Rec		Limit	Batch	Date Analyzed
Chromium, Hexavalent	204	mg/kg		0.0		20	100	75-125
Matrix Spike Duplicate		Units		% Rec		Limit	Batch	Date Analyzed
Analyte	Result	Units		% Rec		Limit	Batch	Date Analyzed
Chromium, Hexavalent	204	mg/kg		204		102	75-125	0.0

Batch number / Run number / Sample number cross reference

WG708230: R2888227: L684335-01 02.03

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	MB-11848		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	11848		RunNo:	16903			
Prep Date:	2/21/2014		Analysis Date:	2/24/2014		SeqNo:	486756		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.8	66	131			

Sample ID	LCS-11848		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	11848		RunNo:	16903			
Prep Date:	2/21/2014		Analysis Date:	2/24/2014		SeqNo:	486757		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.3	60.8	145			
Surr: DNOP	4.3		5.000		85.3	66	131			

Sample ID	1402769-001AMS		SampType:	MS		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LC-1		Batch ID:	11848		RunNo:	16903			
Prep Date:	2/21/2014		Analysis Date:	2/24/2014		SeqNo:	486896		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	80	10	50.35	66.94	26.7	47.4	148			S
Surr: DNOP	4.6		5.035		91.1	66	131			

Sample ID	1402769-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LC-1		Batch ID:	11848		RunNo:	16903			
Prep Date:	2/21/2014		Analysis Date:	2/24/2014		SeqNo:	486897		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	94	10	50.05	66.94	53.4	47.4	148	15.3	22.7	
Surr: DNOP	4.7		5.005		93.1	66	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	MB-11836	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11836	RunNo:	16892					
Prep Date:	2/20/2014	Analysis Date:	2/21/2014	SeqNo:	486487	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	780		1000		78.1	74.5	129			

Sample ID	LCS-11836	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11836	RunNo:	16892					
Prep Date:	2/20/2014	Analysis Date:	2/21/2014	SeqNo:	486488	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	71.7	134			
Surr: BFB	890		1000		89.3	74.5	129			

Sample ID	1402769-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LC-1	Batch ID:	11836	RunNo:	16892					
Prep Date:	2/20/2014	Analysis Date:	2/21/2014	SeqNo:	486493	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	43	4.8	23.83	13.16	124	69.5	145			
Surr: BFB	1500		953.3		153	74.5	129			S

Sample ID	1402769-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LC-1	Batch ID:	11836	RunNo:	16892					
Prep Date:	2/20/2014	Analysis Date:	2/21/2014	SeqNo:	486494	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	23.79	13.16	70.5	69.5	145	35.2	20	R
Surr: BFB	1200		951.5		127	74.5	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	MB-11836	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	11836	RunNo:	16892					
Prep Date:	2/20/2014	Analysis Date:	2/21/2014	SeqNo:	486502	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.7	80	120			

Sample ID	LCS-11836	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	11836	RunNo:	16892					
Prep Date:	2/20/2014	Analysis Date:	2/21/2014	SeqNo:	486503	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	1.1	0.050	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	80	120			

Sample ID	1402769-002AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LC-2		Batch ID:	11836		RunNo:	16892				
Prep Date:	2/20/2014		Analysis Date:	2/21/2014		SeqNo:	486507		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Benzene	1.2	0.049	0.9881	0.009310	117	67.4	135			
Toluene	1.3	0.049	0.9881	0.05720	123	72.6	135			
Ethylbenzene	1.3	0.049	0.9881	0.02518	125	69.4	143			
Xylenes, Total	4.0	0.099	2.964	0.2982	127	70.8	144			
Surr: 4-Bromofluorobenzene	0.95		0.9881		96.5	80	120			

Sample ID	1402769-002AMSD			SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LC-2		Batch ID:	11836		RunNo:	16892				
Prep Date:	2/20/2014		Analysis Date:	2/21/2014		SeqNo:	486508		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Benzene	1.2	0.049	0.9862	0.009310	116	67.4	135	0.811	20	
Toluene	1.2	0.049	0.9862	0.05720	120	72.6	135	2.91	20	
Ethylbenzene	1.2	0.049	0.9862	0.02518	123	69.4	143	1.67	20	
Xylenes, Total	3.9	0.099	2.959	0.2982	122	70.8	144	3.32	20	
Surr: 4-Bromofluorobenzene	0.99		0.9862		100	80	120	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	mb-11857		SampType: MBLK	TestCode: EPA Method 8270C: PAHs						
Client ID:	PBS		Batch ID: 11857	RunNo: 16972						
Prep Date:	2/24/2014		Analysis Date: 2/26/2014	SeqNo: 488422		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	1.0		1.460		68.7	33.8	110			
Surr: Benzo(e)pyrene	0.31		0.3300		93.9	33.3	120			

Sample ID	lcs-11857		SampType: LCS	TestCode: EPA Method 8270C: PAHs						
Client ID:	LCSS		Batch ID: 11857	RunNo: 16972						
Prep Date:	2/24/2014		Analysis Date: 2/26/2014	SeqNo: 488423		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.26	0.020	0.3300	0	77.9	42.5	118			
Acenaphthene	0.23	0.020	0.3300	0	68.9	47.5	125			
Fluorene	0.24	0.020	0.3300	0	73.1	49.1	120			
Anthracene	0.23	0.020	0.3300	0	69.5	42.9	130			
Fluoranthene	0.27	0.020	0.3300	0	82.2	37	134			
Pyrene	0.24	0.020	0.3300	0	73.8	46.4	126			
Benz(a)anthracene	0.25	0.020	0.3300	0	76.0	50.6	126			
Chrysene	0.25	0.020	0.3300	0	74.3	36.8	123			
Benzo(b)fluoranthene	0.27	0.020	0.3300	0	80.4	47.2	130			
Benzo(k)fluoranthene	0.27	0.020	0.3300	0	81.4	40	122			
Benzo(a)pyrene	0.24	0.020	0.3300	0	72.0	44	118			
Dibenz(a,h)anthracene	0.27	0.020	0.3300	0	80.5	53.3	131			
Indeno(1,2,3-cd)pyrene	0.25	0.020	0.3300	0	75.1	52	126			
Surr: N-hexadecane	1.1		1.460		73.6	33.8	110			
Surr: Benzo(e)pyrene	0.35		0.3300		105	33.3	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	1402769-001Ams		SampType: MS	TestCode: EPA Method 8270C: PAHs						
Client ID:	LC-1		Batch ID: 11857	RunNo: 16972						
Prep Date:	2/24/2014		Analysis Date: 2/26/2014	SeqNo: 488427		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.26	0.020	0.3300	0.01400	75.5	39.8	108			
Acenaphthene	0.24	0.020	0.3300	0	74.1	50.2	114			
Fluorene	0.26	0.020	0.3300	0	79.8	55.3	107			
Anthracene	0.28	0.020	0.3300	0	84.1	54.9	116			
Fluoranthene	0.30	0.020	0.3300	0	90.2	55.2	119			
Pyrene	0.30	0.020	0.3300	0	89.9	60.2	115			
Benz(a)anthracene	0.28	0.020	0.3300	0	84.3	61.9	120			
Chrysene	0.32	0.020	0.3300	0	96.8	42.5	117			
Benzo(b)fluoranthene	0.26	0.020	0.3300	0	79.7	57.4	124			
Benzo(k)fluoranthene	0.27	0.020	0.3300	0	81.4	52.6	107			
Benzo(a)pyrene	0.27	0.020	0.3300	0	82.1	55.7	106			
Dibenz(a,h)anthracene	0.26	0.020	0.3300	0	79.3	51.8	130			
Indeno(1,2,3-cd)pyrene	0.24	0.020	0.3300	0	74.1	56.8	120			
Surr: N-hexadecane	1.1		1.460		78.6	33.8	110			
Surr: Benzo(e)pyrene	0.30		0.3300		91.0	33.3	120			

Sample ID	1402769-001Amsd		SampType: MSD	TestCode: EPA Method 8270C: PAHs						
Client ID:	LC-1		Batch ID: 11857	RunNo: 16972						
Prep Date:	2/24/2014		Analysis Date: 2/26/2014	SeqNo: 488428		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.29	0.020	0.3301	0.01400	82.3	39.8	108	8.30	29.7	
Acenaphthene	0.24	0.020	0.3301	0	72.3	50.2	114	2.45	20.5	
Fluorene	0.25	0.020	0.3301	0	77.2	55.3	107	3.31	20	
Anthracene	0.27	0.020	0.3301	0	81.6	54.9	116	3.01	26.6	
Fluoranthene	0.28	0.020	0.3301	0	86.0	55.2	119	4.78	23.7	
Pyrene	0.28	0.020	0.3301	0	84.7	60.2	115	5.87	29.3	
Benz(a)anthracene	0.30	0.020	0.3301	0	92.1	61.9	120	8.85	25.4	
Chrysene	0.31	0.020	0.3301	0	92.5	42.5	117	4.45	27.6	
Benzo(b)fluoranthene	0.24	0.020	0.3301	0	71.4	57.4	124	10.9	20	
Benzo(k)fluoranthene	0.24	0.020	0.3301	0	73.5	52.6	107	10.1	31.3	
Benzo(a)pyrene	0.26	0.020	0.3301	0	78.5	55.7	106	4.49	22.1	
Dibenz(a,h)anthracene	0.26	0.020	0.3301	0	77.8	51.8	130	1.90	21.2	
Indeno(1,2,3-cd)pyrene	0.24	0.020	0.3301	0	73.6	56.8	120	0.650	20.4	
Surr: N-hexadecane	1.0		1.460		71.1	33.8	110	0	0	
Surr: Benzo(e)pyrene	0.30		0.3301		89.9	33.3	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID		1402769-001ADUP		SampType: DUP		TestCode: CONDUCTANCE				
Client ID:		LC-1		Batch ID: R16884		RunNo: 16884				
Prep Date:				Analysis Date: 2/21/2014		SeqNo: 486323		Units: µmhos/cm		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Conductance	1300	1.0						4.10	20	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	MB-11863	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	11863	RunNo:	16923					
Prep Date:	2/24/2014	Analysis Date:	2/24/2014	SeqNo:	487242	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-11863	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	11863	RunNo:	16923					
Prep Date:	2/24/2014	Analysis Date:	2/24/2014	SeqNo:	487243	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	99.4	80	120			

Sample ID	1402769-002AMS	SampType:	MS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LC-2	Batch ID:	11863	RunNo:	16923					
Prep Date:	2/24/2014	Analysis Date:	2/24/2014	SeqNo:	487250	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.80	0.33	0.1651	0.5993	121	75	125			

Sample ID	1402769-002AMSD	SampType:	MSD	TestCode:	EPA Method 7471: Mercury					
Client ID:	LC-2	Batch ID:	11863	RunNo:	16923					
Prep Date:	2/24/2014	Analysis Date:	2/24/2014	SeqNo:	487251	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.79	0.33	0.1657	0.5993	115	75	125	1.14	20	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	MB-11890		SampType:	MBLK		TestCode:	EPA Method 6010B: Soil Metals				
Client ID:	PBS		Batch ID:	11890		RunNo:	16987				
Prep Date:	2/25/2014		Analysis Date:	2/26/2014		SeqNo:	488767		Units:		mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	ND	2.5									
Selenium	ND	2.5									
Silver	ND	0.25									

Sample ID	LCS-11890		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS		Batch ID: 11890		RunNo: 16987					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488768		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.5	25.00	0	93.4	80	120			
Selenium	22	2.5	25.00	0	88.6	80	120			
Silver	4.9	0.25	5.000	0	97.2	80	120			

Sample ID	MB-11890		SampType: MBLK		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	PBS		Batch ID: 11890		RunNo: 17004					
Prep Date:	2/25/2014		Analysis Date: 2/27/2014		SeqNo: 489258		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Lead	ND	0.25								
Nickel	ND	0.50								
Zinc	ND	2.5								

Sample ID	LCS-11890		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS		Batch ID: 11890		RunNo: 17004					
Prep Date:	2/25/2014		Analysis Date: 2/27/2014		SeqNo: 489259		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	24	0.10	25.00	0	95.6	80	120			
Cadmium	24	0.10	25.00	0	95.7	80	120			
Chromium	24	0.30	25.00	0	95.9	80	120			
Copper	26	0.30	25.00	0	104	80	120			
Lead	23	0.25	25.00	0	91.8	80	120			
Nickel	23	0.50	25.00	0	91.9	80	120			
Zinc	23	2.5	25.00	0	92.7	80	120			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402769

03-Mar-14

Client: Animas Environmental

Project: CoP Ute #24

Sample ID	1402769-001AMS	SampType: MS			TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LC-1	Batch ID: 11890			RunNo: 17004					
Prep Date:	2/25/2014	Analysis Date: 2/27/2014			SeqNo: 489269		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	25	2.6	25.86	2.605	85.0	75	125			
Barium	200	0.10	25.86	138.1	254	75	125			S
Cadmium	21	0.10	25.86	0	82.5	75	125			
Chromium	30	0.31	25.86	5.437	93.3	75	125			
Copper	32	0.31	25.86	8.612	89.0	75	125			
Lead	26	0.26	25.86	7.076	74.5	75	125			S
Nickel	29	0.52	25.86	7.731	80.4	75	125			
Selenium	17	2.6	25.86	0	65.3	75	125			S
Silver	4.4	0.26	5.171	0	84.2	75	125			
Zinc	59	2.6	25.86	35.00	92.2	75	125			

Sample ID	1402769-001AMSD	SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID:	LC-1	Batch ID: 11890		RunNo: 17004						
Prep Date:	2/25/2014	Analysis Date: 2/27/2014		SeqNo: 489270		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.4	24.44	2.605	83.6	75	125	6.54	20	RS
Barium	150	0.098	24.44	138.1	39.4	75	125	31.8	20	
Cadmium	20	0.098	24.44	0	80.6	75	125	7.97	20	
Chromium	29	0.29	24.44	5.437	95.8	75	125	2.39	20	S
Copper	29	0.29	24.44	8.612	84.1	75	125	8.04	20	
Lead	25	0.24	24.44	7.076	71.4	75	125	7.13	20	
Nickel	27	0.49	24.44	7.731	77.2	75	125	6.97	20	S
Selenium	17	2.4	24.44	0	70.9	75	125	2.58	20	
Silver	4.0	0.24	4.888	0	82.1	75	125	8.09	20	
Zinc	52	2.4	24.44	35.00	68.7	75	125	12.7	20	S

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



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: 1402769

RcptNo: 1

Received by/date:	AG	02/20/14
Logged By:	Michelle Garcia	2/20/2014 10:07:00 AM
Completed By:	Michelle Garcia	2/20/2014 11:42:41 AM
Reviewed By:	TO	02/20/14

Chain of Custody

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

Log in

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

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp. $^{\circ}\text{C}$	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: <u>Animas Environmental Services LLC</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____	
Mailing Address: <u>624 E Comanche Farmington NM 87401</u>		Project Name: <u>CoP Ute #24</u>	
Phone #: <u>505 564 2281</u>		Project #:	
email or Fax#:		Project Manager:	
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		<u>D. Watson</u>	
Accreditation <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		Sampler: <u>E. Skyles</u>	
<input type="checkbox"/> EDD (Type) _____		On Site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Sample Temperature: <u>7.0</u>	

☒ Standard ☐ Rush

Project Name:

CoP ufe #24

Project #:

Project Manager:

D. Watson

Sampler: E. Skyles

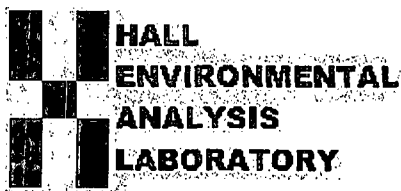
On Ice: ☒ Yes ☐ No

Sample Temperature: 17°C

[illegible]

Date: 2/19/14	Time: 1715	Relinquished by: <i>Eric Smith</i>	Received by: <i>Chris Vatter</i>	Date 2/19/14	Time 1718	Remarks: Bill to Conoco Phillips wo: 9940510 uses: KGARCIA Act Code: DISD. ordered by: Eric Smith
Date: 2/19/14	Time: 1737	Relinquished by: <i>Chris Vatter</i>	Received by: <i>Chris Vatter</i>	Date 02/20/14	Time 1007	

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*

March 17, 2014

Debbie Watson

Animas Environmental

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP Ute #24

OrderNo.: 1403247

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/6/2014 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: Background #1

Project: COP Ute #24

Collection Date: 2/19/2014 10:15:00 AM

Lab ID: 1403247-001

Matrix: SOIL

Received Date: 3/6/2014 10:20:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 7471: MERCURY							Analyst: JML	
Mercury	0.014	0.0056	0.033	J	mg/Kg	1	3/13/2014 8:10:05 PM	12137
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Arsenic	2.5	1.6	2.5		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Barium	100	0.096	0.10		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Cadmium	ND	0.051	0.10		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Chromium	7.1	0.17	0.30		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Copper	6.2	0.30	0.30		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Lead	5.3	0.19	0.25		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Nickel	6.5	0.19	0.50		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Selenium	ND	1.4	2.5		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Silver	ND	0.096	0.25		mg/Kg	1	3/12/2014 11:23:12 AM	12121
Zinc	29	0.16	2.5		mg/Kg	1	3/12/2014 11:23:12 AM	12121

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403247

17-Mar-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	MB-12137	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	12137	RunNo:	17318					
Prep Date:	3/11/2014	Analysis Date:	3/13/2014	SeqNo:	498736	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-12137	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	12137	RunNo:	17318					
Prep Date:	3/11/2014	Analysis Date:	3/13/2014	SeqNo:	498737	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	99.9	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403247

17-Mar-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	MB-12121		SampType: MBLK	TestCode: EPA Method 6010B: Soil Metals						
Client ID:	PBS		Batch ID: 12121	RunNo: 17248						
Prep Date:	3/11/2014		Analysis Date: 3/12/2014	SeqNo: 496724		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Lead	ND	0.25								
Nickel	ND	0.50								
Selenium	ND	2.5								
Silver	ND	0.25								
Zinc	0.35	2.5								J

Sample ID	LCS-12121		SampType: LCS	TestCode: EPA Method 6010B: Soil Metals						
Client ID:	LCSS		Batch ID: 12121	RunNo: 17248						
Prep Date:	3/11/2014		Analysis Date: 3/12/2014	SeqNo: 496725		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	24	2.5	25.00	0	94.3	80	120			
Barium	25	0.10	25.00	0	100	80	120			
Cadmium	25	0.10	25.00	0	100	80	120			
Chromium	25	0.30	25.00	0	98.4	80	120			
Copper	26	0.30	25.00	0	105	80	120			
Lead	24	0.25	25.00	0	94.4	80	120			
Nickel	24	0.50	25.00	0	95.0	80	120			
Selenium	24	2.5	25.00	0	96.8	80	120			
Silver	5.0	0.25	5.000	0	99.1	80	120			
Zinc	25	2.5	25.00	0	98.4	80	120			

Sample ID	1403247-001AMS		SampType: MS	TestCode: EPA Method 6010B: Soil Metals						
Client ID:	Background #1		Batch ID: 12121	RunNo: 17248						
Prep Date:	3/11/2014		Analysis Date: 3/12/2014	SeqNo: 496759		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	22	2.5	25.16	2.536	78.7	75	125			
Barium	130	0.10	25.16	102.8	128	75	125			S
Cadmium	21	0.10	25.16	0	82.4	75	125			
Chromium	30	0.30	25.16	7.056	91.3	75	125			
Copper	29	0.30	25.16	6.247	90.9	75	125			
Lead	23	0.25	25.16	5.325	69.7	75	125			S
Nickel	25	0.50	25.16	6.505	75.2	75	125			
Selenium	17	2.5	25.16	0	66.7	75	125			S

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403247

17-Mar-14

Client: Animas Environmental

Project: COP Ute #24

Sample ID	1403247-001AMS	SampType:	MS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	Background #1	Batch ID:	12121	RunNo:	17248					
Prep Date:	3/11/2014	Analysis Date:	3/12/2014	SeqNo:	496759	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	4.0	0.25	5.033	0	79.4	75	125			
Zinc	53	2.5	25.16	28.99	93.8	75	125			

Sample ID	1403247-001AMSD	SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID:	Background #1	Batch ID: 12121		RunNo: 17248						
Prep Date:	3/11/2014	Analysis Date: 3/12/2014		SeqNo: 496760		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.6	25.69	2.536	77.9	75	125	0.940	20	
Barium	150	0.10	25.69	102.8	178	75	125	9.63	20	S
Cadmium	21	0.10	25.69	0	82.2	75	125	1.83	20	
Chromium	30	0.31	25.69	7.056	89.4	75	125	0.0563	20	
Copper	31	0.31	25.69	6.247	97.1	75	125	6.86	20	
Lead	23	0.26	25.69	5.325	70.2	75	125	2.13	20	S
Nickel	26	0.51	25.69	6.505	75.7	75	125	2.08	20	
Selenium	16	2.6	25.69	0	63.8	75	125	2.42	20	S
Silver	4.1	0.26	5.137	0	80.3	75	125	3.16	20	
Zinc	52	2.6	25.69	28.99	89.0	75	125	1.43	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit



Hall Environmental Analysts 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: Anlmas Environmental

Work Order Number: 1403247

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

3/6/2014 10:20:00 AM

Completed By: Ashley Gallegos

3/6/2014 1:29:37 PM

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?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

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?

Yes ☒

No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

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

[illegible]

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.