

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 12	Facility Type: Gas Well	
Surface Owner Tribal	Mineral Owner Tribal (I-22-IND-2772)	API No. 30-045-11426

LOCATION OF RELEASE

Unit Letter F	Section 16	Township 32N	Range 14W	Feet from the 2708	North/South Line South	Feet from the 1608	East/West Line West	County San Juan
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Latitude **36.98808** Longitude **108.3174**

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 230 bbls	Volume Recovered 150 bbls
Source of Release Produced Water Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 3/4/2013 at 4:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Ryan Joyner (COBLM) & Brandon Powell (NMOCD)	
By Whom? Lisa Hunter	Date and Hour 3/4/2013 at 1:26 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RCVD JUL 11 '13

OIL CONS. DIV.
DIST. 3

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


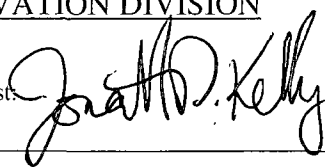
Describe Cause of Problem and Remedial Action Taken.*

Corrosion in production tanks were discovered and released 230bbls of produced water. The well was shut-in and water trucks called to location. 150bbls produced water was recovered. The release was contained within the berm and did not leave location.

Describe Area Affected and Cleanup Action Taken.*

Soil sampling was conducted on 3/7/13 with recommendations of excavation using UMU & COGCC Table 910-1 Standards. The excavation was 25' X 35' X 3' Deep with 97 cubic yards of soil transported to a third party landfarm. On 5/21/13 during excavation a historic release was encountered and excavated. The excavation was 15' X 18' X 2' Deep with 20 cubic yards of soil being transported to a third party landfarm. Excavation and confirmation sampling occurred on 5/21/13. Field screening results indicated TPH concentrations below applicable UMUT Standards for all excavation areas. No further action will be performed and 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: 8/1/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/10/2013 Phone: (505) 326-9837			

* Attach Additional Sheets If Necessary

nJK1321355271 * 2 additional C-141s attached for adjoining remediation 96

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Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Ute 12	Facility Type: Gas Well

Surface Owner Tribal	Mineral Owner Tribal (I-22-IND-2772)	API No. 30-045-11426
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NATURE OF RELEASE


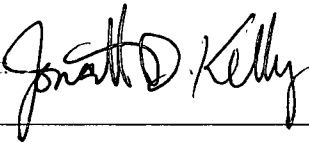
Type of Release Produced Water	Volume of Release 39 bbls	Volume Recovered 0 bbls
Source of Release Produced Water Tank	Date and Hour of Occurrence 12/3/2012	Date and Hour of Discovery 12/3/2012 at 5:15 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Ryan Joyner (COBLM) & Charlie Perrin (NMOCD)	
By Whom? Crystal Tafoya	Date and Hour 12/3/2012 at 2:52pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. RCVD JUL 11 '13	

If a Watercourse was Impacted, Describe Fully.* N/A	OIL CONS. DIV. DIST. 3
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Describe Cause of Problem and Remedial Action Taken.*
Equalizer line between Tank #1 and Tank #2 became plugged and caused Tank #1 to overflow through the thief hatch. Approximately 39bbls of produced water overflowed out of the tank and into the berm. The fluid did not leave the bermed area.

Describe Area Affected and Cleanup Action Taken.*
Soil sampling was conducted on 12/6/12 with recommendation of excavation using Ute Mountain Ute & COGCC Table 910-1 Standards. The excavation was 25' X 25' X 3' Deep and 70 cubic yards of soil was transported to a third party landfarm. Excavation and confirmation sampling occurred. Field screening results of the excavation extents showed that TPH concentrations were below applicable UMUT Standards for all of the final four walls and the base of the excavation. No further action will be performed and 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.

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Printed Name: Crystal Tafoya		Approved by Environmental Specialist: 	
Title: Field Environmental Specialist		Approval Date: 8/1/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com		Conditions of Approval:	
Date: 7/10/2013 Phone: (505) 326-9837		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

NJK1321355625

*** 2 additional C-141s attached for adjoining remediation**

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Surface Owner Tribal	Mineral Owner Tribal (I-22-IND-2772)	API No. 30-045-11426
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Latitude 36.98808 Longitude 108.3174

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 35 bbls	Volume Recovered 30 bbls
Source of Release Produced Water Tank	Date and Hour of Occurrence	Date and Hour of Discovery 1/17/2013 at 6:00am
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) & NMOCD (Brandon Powell)	
By Whom? Crystal Tafoya	Date and Hour 1/17/2013 at 1:16pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. RCVD JUL 11 '13	

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

**OIL CONS. DIV.
DIST. 3**


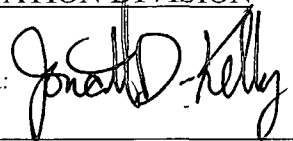
Describe Cause of Problem and Remedial Action Taken.*

A hole in the produced water tank released 35bbls of produced water into the containment berm. The release did not leave location and a water truck was able to recover 30bbls of produced water. The well is shut-in and is awaiting repair.

Describe Area Affected and Cleanup Action Taken.*

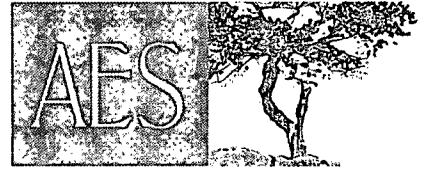
Soil sampling was conducted on 1/25/2013 with recommendations of excavation using Ute Mountain Ute & COGCC Table 910-1 Standards. The excavation included the release from 12/3/2012 and was 25' X 25' X 3' Deep and 70 cubic yards of soil was transported to a third party landfarm. Excavation and confirmation sampling occurred. Field screening results of the excavation extents showed that TPH concentrations were below applicable UMUT Standards for all of the final four walls and the base of the excavation. No further action will be performed and 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.

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Title: Field Environmental Specialist		Approval Date: 8/1/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com		Conditions of Approval:	
Date: 7/10/2013 Phone: (505) 326-9837		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

nJK 1321355869 * 2 additional C-141s attached for adjoining remediation



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

July 2, 2013

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

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

**RE: Initial Release Assessments and Final Excavation Report
Ute #12
San Juan County, New Mexico**

Dear Ms. Tafoya:

On December 6, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment at the Ute #12, located in San Juan County, New Mexico. The release consisted of approximately 39 barrels (bbls) of produced water which overflowed from the northernmost produced water tank in the tank battery.

On January 25, 2013, AES returned to the location and completed an additional initial release assessment at the Ute #12. The second release consisted of approximately 35 bbls of produced water that leaked from a hole in the northernmost produced water tank in the tank battery.

On March 7, 2013, AES again returned to the location and completed an initial release assessment for a corrosion caused produced water release from the southernmost tank in the tank battery. The third release was estimated to be approximately 230 bbls.

On May 21, 2013, AES returned to the location and completed confirmation sampling on two excavations within the tank battery. During the confirmation sampling, an additional release area associated with the former drip tank was discovered, and AES completed confirmation sampling for an excavation associated with that release as well.

1.0 Site Information

1.1 Location

Location - NE¼ SW¼, Section 16, T32N, R14W, San Juan County, New Mexico
Well/Facility Location Latitude/Longitude – N36.98711 and W108.31692, respectively

Release #1 and #2 Latitude/Longitude - N36.98733 and W108.31715, respectively

Release #3 Latitude/Longitude - N36.98725 and W108.31721, respectively

Release #4 Latitude/Longitude - N36.98720 and W108.31763, respectively

Land Jurisdiction – Ute Mountain Ute Tribe (UMUT)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 Regulatory

Standards for releases are determined by the Ute Mountain Ute Environmental Programs Department Standards for Spill Clean-Up and Reclamation based on Colorado Oil and Gas Commission Standards outlined within the COGCC Rules 900 Series Exploration and Production (E&P) Waste Management Table 910-1. These rules are applicable only to E&P waste, as defined in §34-60-103(4.5); Colorado Revised Statutes (CRS).

1.3 Distance to Groundwater and Surface Water

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report dated January 1995 for the Ute #12 reported the depth to groundwater as 340 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the site using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. An unnamed wash is located approximately 400 feet southeast of the location and drains to Barker Arroyo

1.4 Assessments

Release #1

AES was initially contacted by Crystal Tafoya of CoP on December 6, 2012, and on the same day, Deborah Watson of AES completed the initial release assessment field work. The assessment included collecting one 5-point composite soil sample (SC-1) from visibly stained surface soils in the release area for laboratory analysis. Sampling locations are shown on Figure 3.

Release #2

AES was contacted by Crystal Tafoya of CoP on January 22, 2013, and on January 25, 2013, Kelsey Christiansen and Corwin Lameman of AES completed the initial release assessment field work. The assessment included collection and field screening of 36 soil samples from 9 soil borings (SB-1 through SB-9) within the release area. Additionally, one soil sample (SC-2) was composited from surface samples collected in SB-1 through SB-9 for laboratory analysis. Sampling locations are shown on Figure 4.

Release #3

AES was contacted by Crystal Tafoya of CoP on March 6, 2013, and on March 7, 2013, Deborah Watson and Heather Woods of AES completed the initial release assessment field work. The assessment included collection and field screening of 23 soil samples from 11 soil borings (SB-10 through SB-20) within the release area. Additionally, three soil samples (SC-3 through SC-5) were composited from surface samples collected in SB-10 through SB-20. Sampling locations are shown on Figure 5.

Release #4

During final excavation confirmation sampling on May 21, 2013, a release from the former drip tank was identified, and AES personnel recommended an area of excavation based on visual observations and consultation with CoP personnel.

Final Excavation Confirmation Sampling

On May 21, 2013, AES personnel completed confirmation sampling on three excavation areas (Area A, B, and C). Composite soil samples were collected from the walls and base of each excavation, for a total of 15 samples (SC-6 through SC-20). Additionally, samples SC-16 through SC-20 were composited into sample SC-21 and submitted for laboratory analysis. Sample locations and excavation extents are shown on Figure 6.

2.0 Soil Sampling

A total of 59 soil samples were collected from 20 soil borings (SB-1 through SB-20). Additionally, five composite samples (SC-1 through SC-5) were collected during the assessments. Fifteen composite samples (SC-6 through SC-20) were collected during final excavation confirmation sampling. Soil samples were field-screened for volatile organic compounds (VOCs) and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Additionally, composite samples SC-1 through SC-5 and SC-21 were submitted for laboratory analysis.

2.1 Field Screening

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 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 composite soil samples (SC-1 through SC-5 and SC-21) 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-1 through SC-5 and SC-21 were laboratory analyzed per Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 Requirements, which included the following:

- VOCs per USEPA Methods 8015/8021: *total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (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, sodium adsorption ratio, and pH*; and
- Metals per USEPA Method 6010B and 7471: *arsenic, barium, cadmium, chromium (III), chromium (VI), copper, lead, mercury, nickel, selenium, silver, and zinc*.

2.3 Field Screening and Laboratory Analytical Results

On January 25, 2013, release assessment field screening results for VOCs via OVM showed concentrations ranging from 0.1 ppm in SB-5 up to 773 ppm in SB-1. Field TPH concentrations ranged from less than 20 mg/kg in SB-5 through SB-9 to greater than 2,500 mg/kg in SB-1.

On March 7, 2013, release assessment field screening results for VOCs via OVM showed concentrations ranging from 2.5 ppm in SB-10 up to 1,040 ppm in SB-18. Field TPH

concentrations ranged from 39.5 mg/kg in SB-15 to greater than 2,500 mg/kg in SB-16 and SB-18.

On May 21, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 0.6 ppm (SC-10) to 218 ppm (SC-8) in Area A; from 1.4 ppm (SC-15) to 58.9 ppm (SC-12) in Area B; and from 0.4 ppm (SC-19) to 64.3 ppm (SC-20) in Area C. Field TPH concentrations ranged from 34.0 mg/kg (SC-10) to 107 mg/kg (SC-7) in Area A; from 46.6 mg/kg (SC-11) to 100 mg/kg (SC-12) in Area B; and from 46.6 mg/kg (SC-18) to 484 mg/kg (SC-20) in Area C. Results are included below in Table 1 and on Figures 3 through 5. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening Results
Ute #12 Initial Release Assessments and Final Excavation
December 2012 through May 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>
		UMUT Standards*	--	500
SB-1	1/25/13	0.5	773	>2,500
		2	21.1	NA
		4	27.0	NA
		6	24.4	NA
		8	11.1	34.4
SB-2	1/25/13	0.5	12.2	41.4
		2	8.6	NA
		4	10.1	NA
		6	5.7	NA
		8	7.2	82.5
SB-3	1/25/13	0.5	2.5	NA
		2	1.9	NA
		3.5	1.2	40.0
SB-4	1/25/13	0.5	27.5	26.3
		1.5	2.1	NA
		4	1.1	NA
		6	0.9	NA
		8	5.7	30.4
SB-5	1/25/13	0.5	70.3	658
		2	2.2	NA
		3	0.1	<20.0
SB-6	1/25/13	0.5	15.4	31.8
		1	5.8	<20.0

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>
		<i>UMUT Standards*</i>	<i>--</i>	<i>500</i>
SB-7	1/25/13	0.5	1.7	26.3
		2	17.9	NA
		4	19.1	NA
		6	1.2	NA
		8	1.5	<20.0
SB-8	1/25/13	0.5	0.7	<20.0
		2	0.6	NA
		4	0.7	<20.0
SB-9	1/25/13	0.5	1.1	<20.0
		2	3.1	NA
		4	6.5	NA
		6	8.0	NA
		8	9.9	<20.0
SB-10	3/7/13	Surface	3.3	47.8
		2	2.5	50.6
		4	9.1	56.1
SB-11	3/7/13	Surface	5.5	68.5
		2	7.3	54.7
SB-12	3/7/13	Surface	11.8	151
		2	4.7	NA
		4	5.8	NA
SB-13	3/7/13	Surface	11.2	65.8
		2	5.7	NA
		4	5.4	NA
SB-14	3/7/13	Surface	2.6	54.7
SB-15	3/7/13	Surface	4.9	39.5
		1	4.0	NA
SB-16	3/7/13	Surface	319	>2,500
		2	13.1	52.0
SB-17	3/7/13	Surface	12.3	93.4
		2	8.1	NA
SB-18	3/7/13	Surface	1,040	>2,500
		2	63.1	139
SB-19	3/7/13	Surface	7.2	52.0
		2	6.7	NA
SB-20	3/7/13	Surface	5.5	NA
SC-6	5/21/13	1 to 3	0.9	38.2

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>
UMUT Standards*			--	500
SC-7	5/21/13	1 to 3	149	107
SC-8	5/21/13	1 to 3	218	38.2
SC-9	5/21/13	1 to 3	189	52.3
SC-10	5/21/13	3	0.6	34.0
SC-11	5/21/13	1 to 3	1.6	46.6
SC-12	5/21/13	1 to 3	58.9	100
SC-13	5/21/13	1 to 3	1.8	50.9
SC-14	5/21/13	1 to 3	2.1	48.1
SC-15	5/21/13	3	1.4	53.7
SC-16	5/21/13	1 to 2.5	4.8	52.3
SC-17	5/21/13	1 to 2.5	1.9	59.3
SC-18	5/21/13	1 to 2.5	2.1	46.6
SC-19	5/21/13	1 to 2.5	0.4	69.1
SC-20	5/21/13	2.5	64.3	484

NA – Not Analyzed;

*UMUT Standards of Spill Clean-up and Reclamation (based on Colorado Oil and Gas Commission Standards)

Laboratory analytical results for the composite samples SC-1 through SC-5 and SC-21 are included below in Table 2, and laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Ute #12 Initial Release Assessments and Final Excavation
December 2012 through May 2013

<i>Analytical Parameter</i>	<i>SC-1 12/6/12</i>	<i>SC-2 1/25/13</i>	<i>SC-3 3/29/13</i>	<i>SC-4 3/29/13</i>	<i>SC-5 3/29/13</i>	<i>SC-21 5/22/13</i>	<i>UMUT Standard*</i>
<i>Benzene (mg/kg)</i>	<0.96	<0.19	<0.047	<0.047	<0.47	<0.047	0.17
<i>Toluene (mg/kg)</i>	<0.96	0.021	<0.047	<0.047	<0.47	<0.047	85
<i>Ethylbenzene (mg/kg)</i>	1.1	0.079	<0.047	<0.047	0.14	<0.047	100
<i>Total Xylenes (mg/kg)</i>	15	0.32	<0.093	<0.093	5.7	0.014	175
<i>GRO (mg/kg)</i>	370	44	<4.7	<4.7	580	<4.7	
<i>DRO (mg/kg)</i>	11,000	2,200	53	<10	850	22	500
<i>MRO (mg/kg)</i>	NA	<500	<52	<51	<51	<50	

Analytical Parameter	SC-1 12/6/12	SC-2 1/25/13	SC-3 3/29/13	SC-4 3/29/13	SC-5 3/29/13	SC-21 5/22/13	UMUT Standard*
Acenaphthene (mg/kg)	<0.40	<0.10	<0.020	<0.020	0.31	<0.020	1,000
Anthracene (mg/kg)	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	1,000
Benzo(A)anthracene (mg/kg)	<0.040	<0.020	<0.020	<0.020	0.023	<0.020	0.22
Benzo(B)fluoranthene (mg/kg)	<0.040	0.0050	<0.020	0.0084	0.037	0.012	0.22
Benzo(K)fluoranthene (mg/kg)	<0.040	<0.020	<0.020	<0.020	0.010	0.0083	2.2
Benzo(A)pyrene (mg/kg)	<0.040	<0.020	<0.020	<0.020	0.021	<0.020	0.022
Chrysene (mg/kg)	<0.040	<0.020	<0.020	<0.020	0.023	<0.020	22
Dibenzo(A,H)anthracene(mg/kg)	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	0.022
Fluoranthene (mg/kg)	<0.040	<0.020	0.0043	0.0037	0.051	<0.020	1,000
Fluorene (mg/kg)	0.54	<0.10	<0.020	<0.020	0.65	<0.020	1,000
Indeno(1,2,3,C,D)pyrene (mg/kg)	<0.040	<0.020	<0.020	<0.020	<0.020	<0.020	0.22
Naphthalene (mg/kg)	4.1	0.46	0.0047	0.0047	0.56	<0.020	23
Pyrene (mg/kg)	<0.040	<0.020	<0.020	<0.020	0.054	<0.020	1,000
Electrical Conductivity (µmhos/cm)	6,900	5,200	5,000	1,900	4,200	2,400	<4,000
Sodium Adsorption Ratio	89	63	91	3.0	60	34	<12
pH	8.12	8.2	8.7	7.9	8.4	8.8	6-9
Arsenic (mg/kg)*	7.1	1.9	<3.1	<3.1	<3.1	4.0	0.39
Barium (mg/kg)	150	160	190	130	130	200	15,000
Cadmium (mg/kg)	<0.10	0.037	<0.50	<0.50	<0.50	<0.20	70
Chromium (III) (mg/kg)	4.2	4.9	6.4	7.7	5.2	8.5	120,000
Chromium (VI) (mg/kg)	<2.0	<2.0	<2.0	<50	<2.0	<10	23
Copper (mg/kg)	8.5	9.0	10	9.5	9.7	11	3,100
Lead (mg/kg)	3.8	3.5	4.4	9.1	5.4	7.7	400

Analytical Parameter	SC-1 12/6/12	SC-2 1/25/13	SC-3 3/29/13	SC-4 3/29/13	SC-5 3/29/13	SC-21 5/22/13	UMUT Standard*
Mercury (mg/kg)	<0.033	0.020	0.0079	0.043	0.0063	0.036	23
Nickel (mg/kg)	3.6	3.7	5.0	7.6	4.4	9.1	1,600
Selenium (mg/kg)	<2.5	<2.5	<12	<12	<12	<5.0	390
Silver (mg/kg)	<0.25	<0.25	<1.2	<1.2	<1.3	<0.50	390
Zinc (mg/kg)	24	24	37	44	28	47	23,000

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

3.0 Conclusions and Recommendations

AES conducted initial assessments of four release areas at the Ute #12, located in San Juan County, New Mexico, from December 2012 through March 2013. Based on visual observations, field screening, and laboratory analytical results from the assessments, three excavation areas (A, B, and C) were recommended. On May 21, 2013, AES returned to conduct confirmation sampling on the final excavation areas. Soil arsenic concentrations were reported above the UMUT threshold of 0.39 mg/kg (which is based on the COGCC residential standard) in SC-1, SC-2, and SC-21; however, background arsenic concentrations in the general vicinity are known to be elevated. Additionally, sodium adsorption ratios exceeded UMUT Standards, which is consistent with previous work experience in the general area of this location.

AREA A: Releases #1 and #2

On December 6, 2012, AES completed an initial assessment for an approximately 39 bbl produced water and condensate release that occurred when the northernmost tank in the tank battery was overfilled. The assessment included the collection of one 5-point composite soil sample (SC-1) from visibly stained surface soils in the release area for laboratory analysis. Laboratory analytical results confirmed TPH concentrations above UMUT Standards.

On January 25, 2013, AES completed an initial assessment for an approximately 35 bbl produced water release that resulted from a corrosion hole in the northernmost tank in the tank battery. The assessment included collection and field screening of 36 soil samples from 9 soil borings (SB-1 through SB-9) within the release area. Additionally, one soil sample (SC-2) was composited from surface samples collected in SB-1 through SB-9 for laboratory analysis. Field screening and laboratory analytical results confirmed

TPH concentrations above UMUT Standards, and an area of excavation (Area A) was recommended that would remove soils impacted by both Release #1 and #2.

On May 21, 2013, AES conducted confirmation sampling of the final excavation for Area A, which measured approximately 475 feet² by 3 feet in depth. Field screening results of the excavation extents showed that VOC and TPH concentrations were below applicable UMUT Standards for all of the final four walls and the base of the excavation.

AREA B: Release #3

On March 7, 2013, AES completed an initial assessment for an approximately 230 bbl release of produced water that resulted from a corrosion hole in the southernmost tank in the tank battery. The assessment included collection and field screening of 23 soil samples from 11 soil borings (SB-10 through SB-20) within the release area. Additionally, three soil samples (SC-3 through SC-5) were composited from surface samples collected in SB-10 through SB-20. Field screening and laboratory analytical results confirmed TPH concentrations above UMUT standards, and an area of excavation (Area B) was recommended that would remove soils impacted by Release #3.

On May 21, 2013, AES conducted confirmation sampling of the final excavation for Area B, which measured approximately 655 feet² by 3 feet in depth. Field screening results of the excavation extents showed that VOC and TPH concentrations were below applicable UMUT standards for all of the final four walls and the base of the excavation.

AREA C: Release #4

On May 21, 2013, a release from the former drip tank was identified, and AES personnel recommended an area of excavation based on visual observations and consultation with CoP personnel. AES conducted confirmation sampling of the final excavation for Area C, which measured approximately 500 feet² by 2.5 feet in depth. Field screening results of the excavation extents showed that VOC and TPH concentrations were below applicable UMUT standards for all of the final four walls and the base of the excavation. In addition, a composite sample from the walls and base of the excavation (SC-21) was submitted for confirmation laboratory analysis. All parameters were below UMUT Standards, with the exception of sodium adsorption ratio and arsenic, which were consistent with levels typically observed in regional soils.

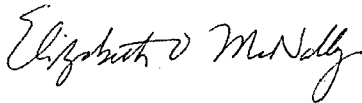
Based on visual observations, field screening and laboratory analytical results, CoP received approval to backfill the excavations (Areas A, B, and C) from Scott Clow of UMUT Environmental Programs Department and Ryan Joyner of Colorado Bureau of Land Management on May 23, 2013.

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

Sincerely,



Landrea Cupps
Environmental Scientist

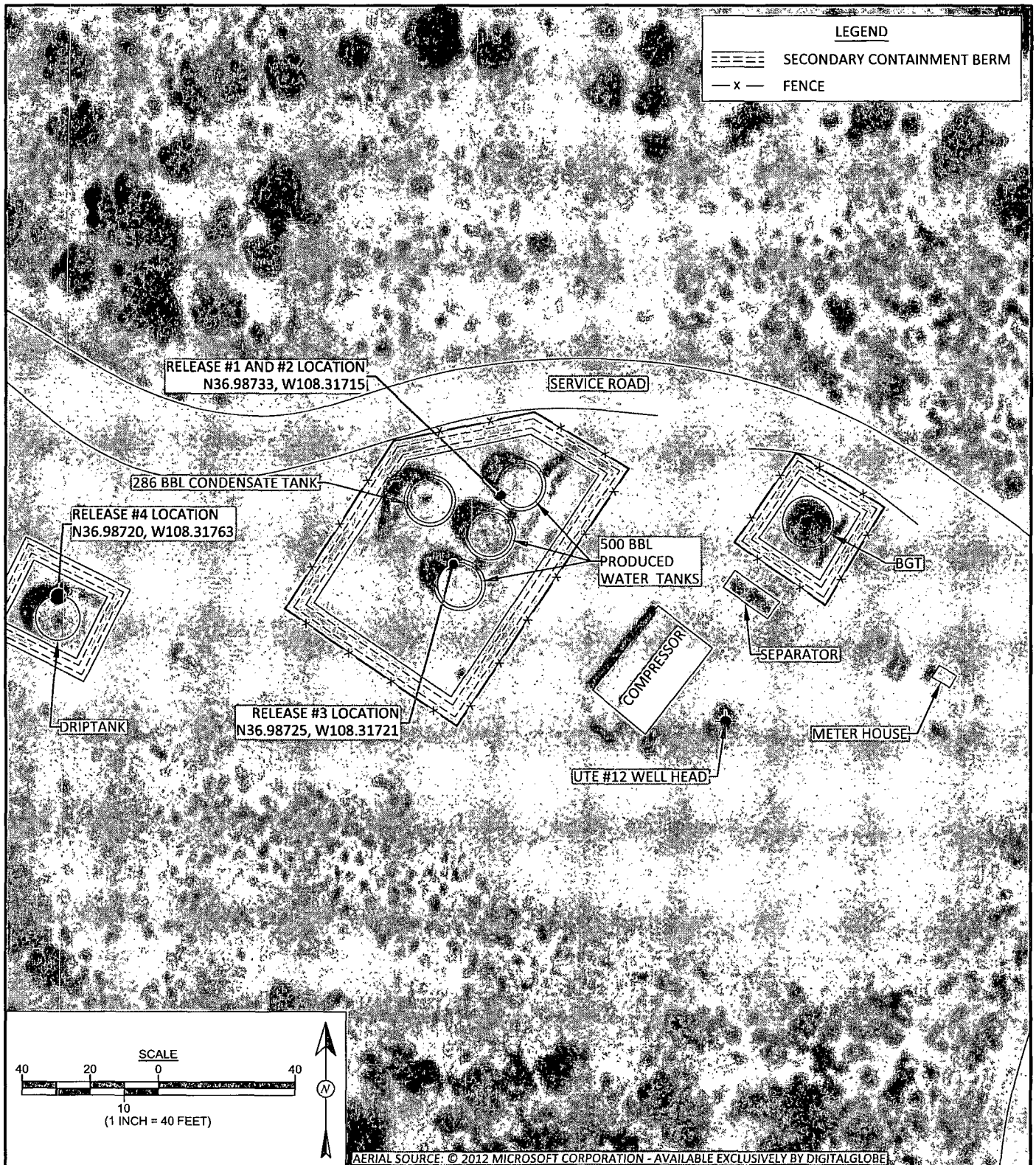


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Initial Assessment Sample Locations and Results, December 2012
- Figure 4. Initial Assessment Sample Locations and Results, January 2013
- Figure 5. Initial Assessment Sample Locations and Results, March 2013
- Figure 6. Final Excavation Sample Locations and Results, May 2013
- AES Field Screening Reports 012513, 030713, and 052113
- Hall Analytical Report 1212360, 1301920, 1303459, and 1305949

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Ute 12\CoP Ute #12 Initial Release Assessments and Final Excavation Report 070213.docx



Animas Environmental Services, LLC

DRAWN BY:

C. Lameman

DATE DRAWN:

March 8, 2013

REVISIONS BY:

C. Lameman

DATE REVISED:

June 6, 2013

CHECKED BY:

D. Watson

DATE CHECKED:

June 6, 2013

APPROVED BY:

E. McNally

DATE APPROVED:

June 6, 2013

FIGURE 2

AERIAL SITE MAP

ConocoPhillips

UTE #12

SAN JUAN COUNTY, NEW MEXICO
NE¼ SW¼, SECTION 16, T32N, R14W
N36.98711, W108.31692

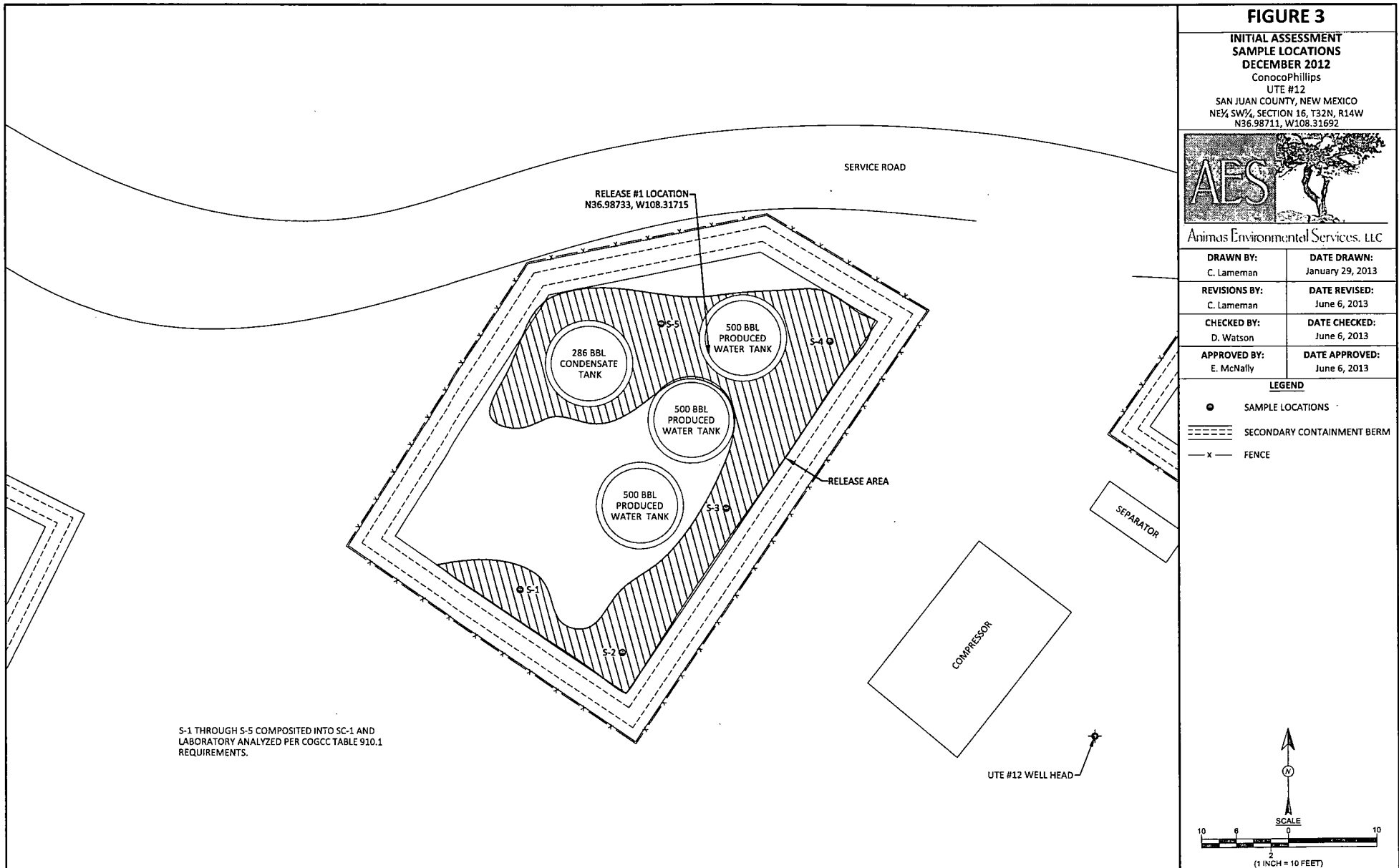


FIGURE 4

**INITIAL ASSESSMENT SAMPLE
LOCATIONS AND RESULTS
JANUARY 2013**
ConocoPhillips
UTE #12
SAN JUAN COUNTY, NEW MEXICO
NE¼ SW¼, SECTION 16, T32N, R14W
N36.98711, W108.31692

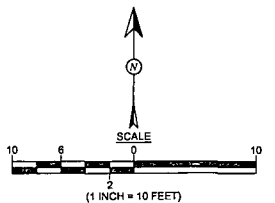


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: January 29, 2013
REVISIONS BY: C. Lameman	DATE REVISED: June 6, 2013
CHECKED BY: D. Watson	DATE CHECKED: June 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: June 6, 2013

LEGEND

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



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
UMUT STANDARDS			—	500
SB-1	1/25/13	0.5	773	>2,500
		2	21.1	NA
		4	27.0	NA
		6	24.4	NA
		8	11.1	34.4
SB-2	1/25/13	0.5	12.2	41.4
		2	8.6	NA
		4	10.1	NA
		6	5.7	NA
		8	7.2	82.5
SB-3	1/25/13	0.5	2.5	NA
		2	1.9	NA
		3.5	1.2	40.0
SB-4	1/25/13	0.5	27.5	26.3
		1.5	2.1	NA
		4	1.1	NA
		6	0.9	NA
		8	5.7	30.4
SB-5	1/25/13	0.5	70.3	658
		2	2.2	NA
		3	0.1	<20.0
SB-6	1/25/13	0.5	15.4	31.8
		1	5.8	<20.0
SB-7	1/25/13	0.5	1.7	26.3
		2	17.9	NA
		4	19.1	NA
		6	1.2	NA
		8	1.5	<20.0
SB-8	1/25/13	0.5	0.7	<20.0
		2	0.6	NA
		4	0.7	<20.0
SB-9	1/25/13	0.5	1.1	<20.0
		2	3.1	NA
		4	6.5	NA
		6	8.0	NA
		8	9.9	<20.0

NA - NOT ANALYZED. SB-1 THROUGH SB-9 COMPOSITED INTO SC-2 AND LABORATORY ANALYZED PER COGCC TABLE 910.1 REQUIREMENTS.

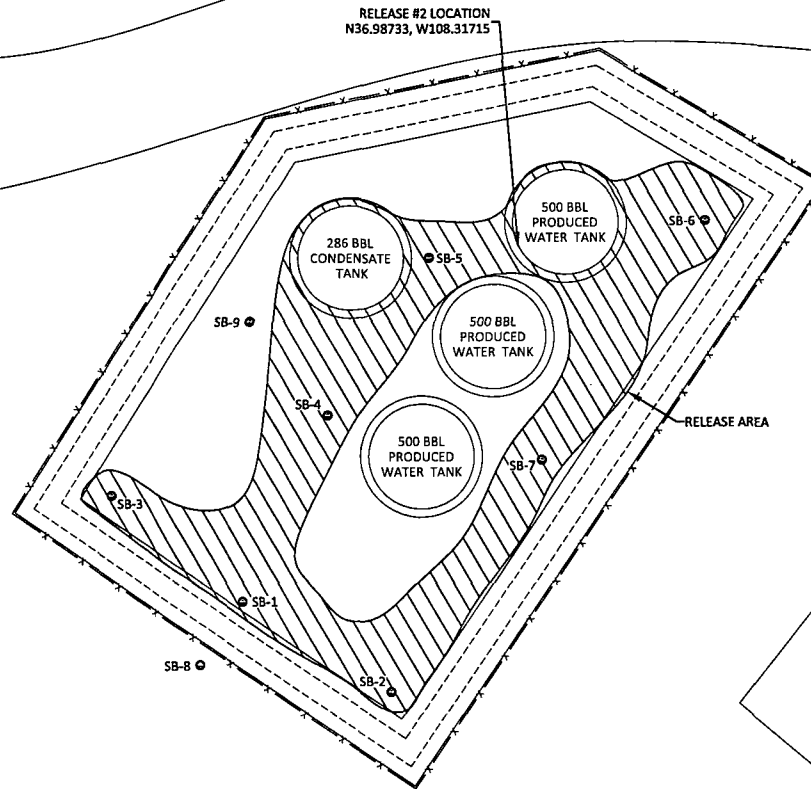


FIGURE 5

**INITIAL ASSESSMENT SAMPLE
LOCATIONS AND RESULTS
MARCH 2013**
ConocoPhillips
UTE #12
SAN JUAN COUNTY, NEW MEXICO
NE¼, SW¼, SECTION 16, T32N, R14W
N36.98711, W108.31692

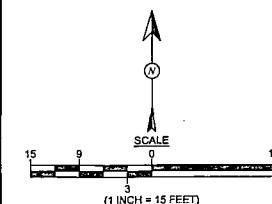


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: March 8, 2013
REVISIONS BY: C. Lameman	DATE REVISED: June 6, 2013
CHECKED BY: D. Watson	DATE CHECKED: June 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: June 6, 2013

LEGEND

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



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
UMUT STANDARDS			—	500.
SB-10	3/7/13	Surface	3.3	47.8
		2	2.5	50.6
		4	9.1	56.1
SB-11	3/7/13	Surface	5.5	68.5
		2	7.3	54.7
		4	9.1	56.1
SB-12	3/7/13	Surface	11.8	151
		2	4.7	NA
		4	5.8	NA
SB-13	3/7/13	Surface	11.2	65.8
		2	5.7	NA
		4	5.4	NA
SB-14	3/7/13	Surface	2.6	54.7
		Surface	4.9	39.5
SB-15	3/7/13	1	4.0	NA
		Surface	319	>2,500
SB-16	3/7/13	2	13.1	52.0
		Surface	12.3	93.4
SB-17	3/7/13	2	8.1	NA
		Surface	1,040	>2,500
SB-18	3/7/13	2	63.1	139
		Surface	7.2	52.0
SB-19	3/7/13	2	6.7	NA
		Surface	5.5	NA
SB-20	3/7/2013	Surface	5.5	NA

NA - NOT ANALYZED. SB-10 THROUGH SB-20 COMPOSITED INTO SC-3 THROUGH SC-5 AND LABORATORY ANALYZED PER COGCC TABLE 910.1 REQUIREMENTS.

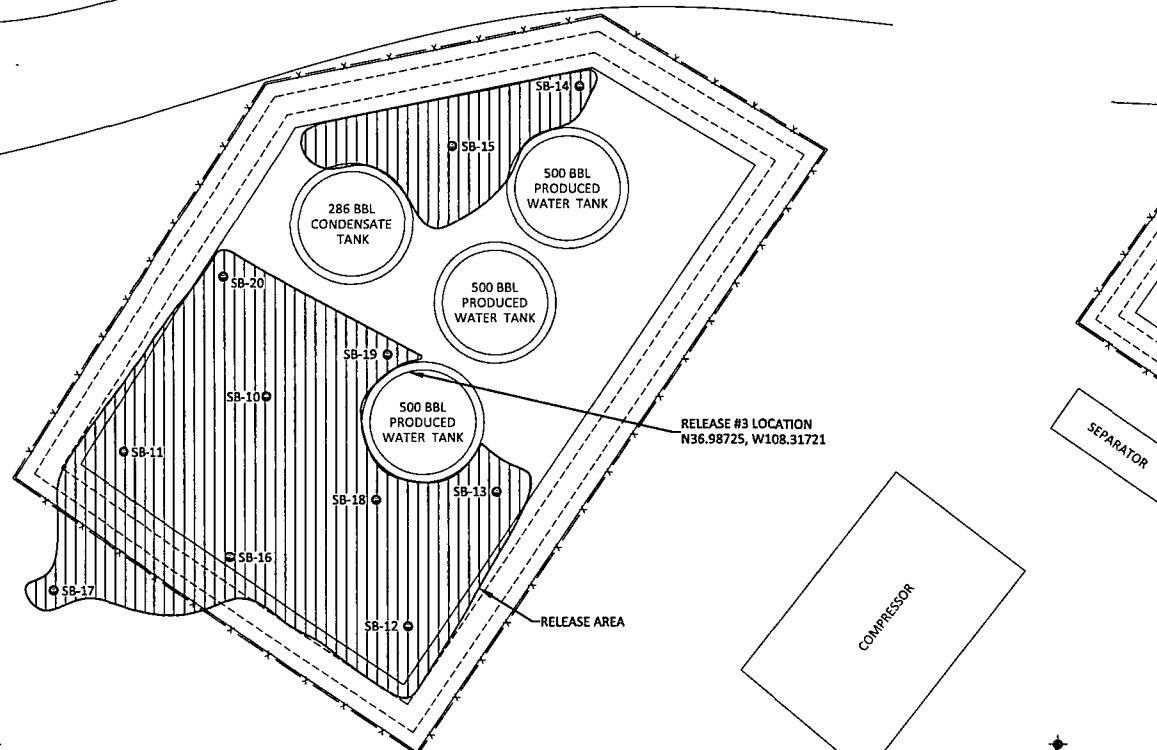


FIGURE 6

**FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
MAY 2013**
ConocoPhillips
UTE #12
SAN JUAN COUNTY, NEW MEXICO
NE¼ SW¼, SECTION 16, T32N, R14W
N36.98711, W108.31692

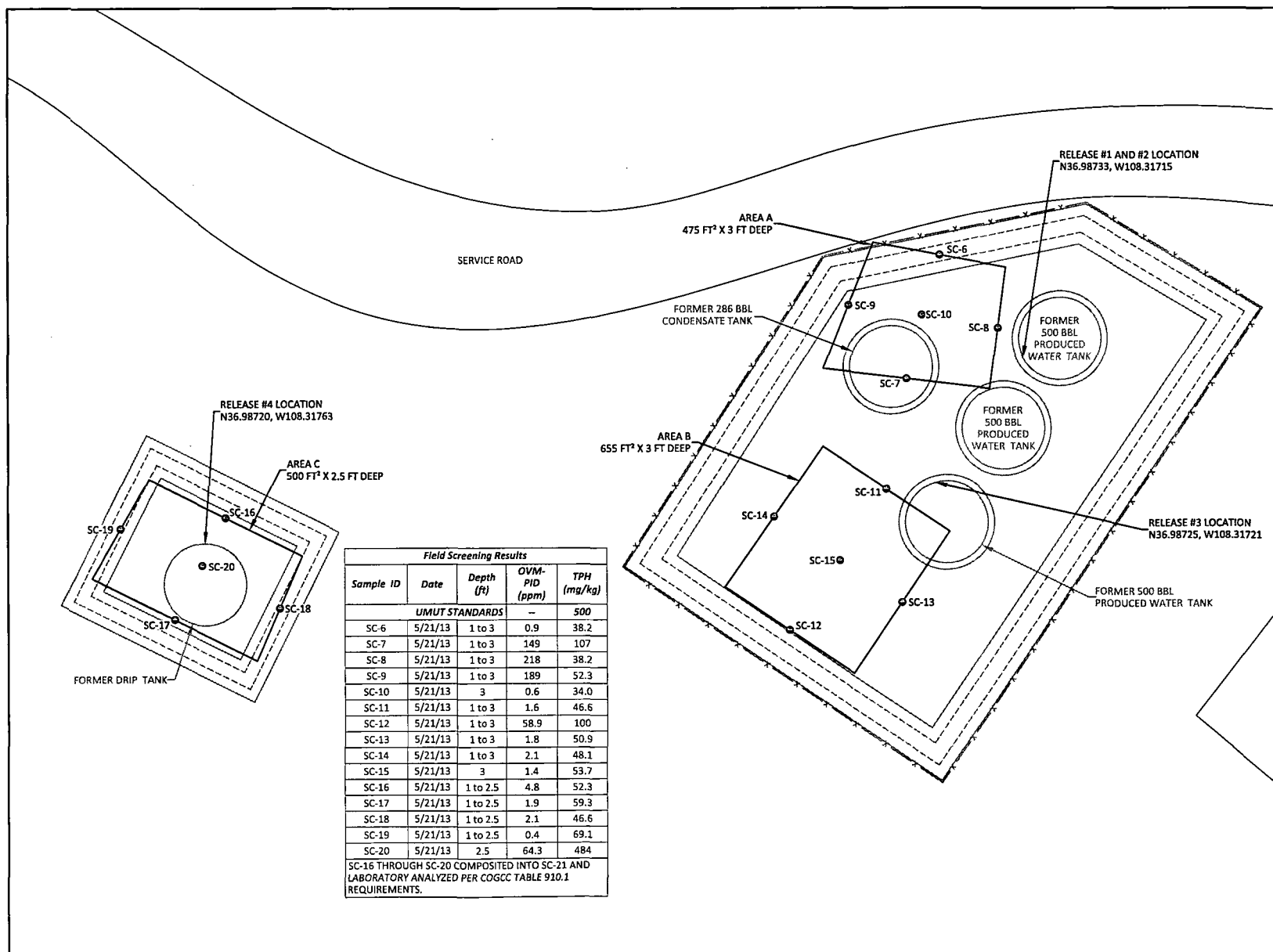
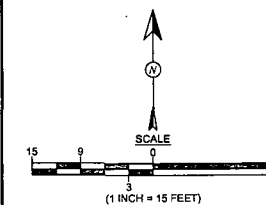


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 28, 2013
REVISIONS BY: C. Lameman	DATE REVISED: June 6, 2013
CHECKED BY: D. Watson	DATE CHECKED: June 6, 2013
APPROVED BY: E. McNally	DATE APPROVED: June 6, 2013

LEGEND

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



AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Ute #12

Date: 1/25/2013

Matrix: Soil

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

Durango, Colorado
970-403-3084

Sample ID	Collection Date	Collection Time	OMV (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0.5'	1/25/2013	11:30	773	12:43	>2,500	20.0	1	KC
SB-1 @ 2'	1/25/2013	11:33	21.1	Not Analyzed for TPH				
SB-1 @ 4'	1/25/2013	11:37	27.0	Not Analyzed for TPH				
SB-1 @ 6'	1/25/2013	11:41	24.4	Not Analyzed for TPH				
SB-1 @ 8'	1/25/2013	11:45	11.1	12:45	34.4	20.0	1	KC
SB-2 @ 0.5'	1/25/2013	11:51	12.2	13:43	41.4	20.0	1	KC
SB-2 @ 2'	1/25/2013	11:54	8.6	Not Analyzed for TPH				
SB-2 @ 4'	1/25/2013	11:57	10.1	Not Analyzed for TPH				
SB-2 @ 6'	1/25/2013	11:59	5.7	Not Analyzed for TPH				
SB-2 @ 8'	1/25/2013	12:04	7.2	13:46	82.5	20.0	1	KC
SB-3 @ 0.5'	1/25/2013	12:07	2.5	Not Analyzed for TPH				
SB-3 @ 2'	1/25/2013	12:11	1.9	Not Analyzed for TPH				
SB-3 @ 3.5'	1/25/2013	12:15	1.2	13:48	40.0	20.0	1	KC
SB-4 @ 0.5'	1/25/2013	12:20	27.5	14:58	26.3	20.0	1	KC
SB-4 @ 1.5'	1/25/2013	12:24	2.1	Not Analyzed for TPH				
SB-4 @ 4'	1/25/2013	12:28	1.1	Not Analyzed for TPH				
SB-4 @ 6'	1/25/2013	12:31	0.9	Not Analyzed for TPH				
SB-4 @ 8'	1/25/2013	12:35	5.7	15:02	30.4	20.0	1	KC
SB-5 @ 0.5'	1/25/2013	12:40	70.3	15:06	658	20.0	1	KC
SB-5 @ 2'	1/25/2013	12:44	2.2	Not Analyzed for TPH				
SB-5 @ 3'	1/25/2013	12:48	0.1	15:10	18.1	20.0	1	KC
SB-6 @ 0.5'	1/25/2013	12:53	15.4	15:14	31.8	20.0	1	KC

CoP Ute #12

Page 1

Report Finalized: 01/25/13

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-6 @ 1'	1/25/2013	12:57	5.8	15:18	19.4	20.0	1	KC
SB-7 @ 0.5'	1/25/2013	13:02	1.7	15:21	26.3	20.0	1	KC
SB-7 @ 2'	1/25/2013	13:06	17.9	Not Analyzed for TPH				
SB-7 @ 4'	1/25/2013	13:10	19.1	Not Analyzed for TPH				
SB-7 @ 6'	1/25/2013	13:14	1.2	Not Analyzed for TPH				
SB-7 @ 8'	1/25/2013	13:18	1.5	15:25	18.1	20.0	1	KC
SB-8 @ 0.5'	1/25/2013	13:23	0.7	15:29	16.7	20.0	1	KC
SB-8 @ 2'	1/25/2013	13:27	0.6	Not Analyzed for TPH				
SB-8 @ 4'	1/25/2013	13:31	0.7	15:32	18.1	20.0	1	KC
SB-9 @ 0.5'	1/25/2013	13:35	1.1	15:36	15.3	20.0	1	KC
SB-9 @ 2'	1/25/2013	13:39	3.1	Not Analyzed for TPH				
SB-9 @ 4'	1/25/2013	13:43	6.5	Not Analyzed for TPH				
SB-9 @ 6'	1/25/2013	13:47	8.0	Not Analyzed for TPH				
SB-9 @ 8'	1/25/2013	13:52	9.9	15:39	18.1	20.0	1	KC

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst:

Kelany Christman

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Ute #12

Date: 3/7/2013

Matrix: Soil

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

Durango, Colorado
970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-10 @ Surface	3/7/2013	13:57	3.3	14:34	47.8	20.0	1	DAW
SB-10 @ 2'	3/7/2013	14:02	2.5	14:37	50.6	20.0	1	DAW
SB-10 @ 4'	3/7/2013	14:05	9.1	14:39	56.1	20.0	1	DAW
SB-11 @ Surface	3/7/2013	14:08	5.5	14:42	68.5	20.0	1	DAW
SB-11 @ 2'	3/7/2013	14:13	7.3	14:44	54.7	20.0	1	DAW
SB-12 @ Surface	3/7/2013	14:17	11.8	15:15	151	20.0	1	DAW
SB-12 @ 2'	3/7/2013	14:21	4.7	Not Analyzed for TPH				
SB-12 @ 4'	3/7/2013	14:23	5.8	Not Analyzed for TPH				
SB-13 @ Surface	3/7/2013	14:26	11.2	15:17	65.8	20.0	1	DAW
SB-13 @ 2'	3/7/2013	14:31	5.7	Not Analyzed for TPH				
SB-13 @ 4'	3/7/2013	14:33	5.4	Not Analyzed for TPH				
SB-14 @ Surface	3/7/2013	14:44	2.6	15:19	54.7	20.0	1	DAW
SB-15 @ Surface	3/7/2013	14:54	4.9	15:21	39.5	20.0	1	DAW
SB-15 @ 1'	3/7/2013	14:58	4.0	Not Analyzed for TPH				
SB-16 @ Surface	3/7/2013	15:04	319	15:25	>2,500	20.0	1	DAW
SB-16 @ 2'	3/7/2013	15:36	13.1	16:04	52.0	20.0	1	DAW
SB-17 @ Surface	3/7/2013	15:11	12.3	15:53	93.4	20.0	1	DAW
SB-17 @ 2'	3/7/2013	15:15	8.1	Not Analyzed for TPH				
SB-18 @ Surface	3/7/2013	15:38	1,040	16:07	>2,500	20.0	1	DAW
SB-18 @ 2'	3/7/2013	15:42	63.1	16:13	139	20.0	1	DAW
SB-19 @ Surface	3/7/2013	15:44	7.2	16:11	52.0	20.0	1	DAW
SB-19 @ 2'	3/7/2013	15:48	6.7	Not Analyzed for TPH				

CoP Ute #12

Page 1

Report Finalized: 03/07/13

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-20 @ Surface	3/7/2013	15:53	5.5	Not Analyzed for TPH				

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst:

Debrah Water

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Ute #12

Date: 5/21/2013

Matrix: Soil

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

Durango, Colorado
970-403-3084

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	5/21/2013	11:48	Area A North Wall	0.9	11:55	38.2	20.0	1	KC
SC-7	5/21/2013	11:49	Area A South Wall	149	11:57	107	20.0	1	KC
SC-8	5/21/2013	11:50	Area A East Wall	218	12:00	38.2	20.0	1	KC
SC-9	5/21/2013	11:51	Area A West Wall	189	12:03	52.3	20.0	1	KC
SC-10	5/21/2013	11:52	Area A Base	0.6	12:05	34.0	20.0	1	KC
SC-11	5/21/2013	12:41	Area B North Wall	1.6	12:47	46.6	20.0	1	KC
SC-12	5/21/2013	12:43	Area B South Wall	58.9	12:50	100	20.0	1	KC
SC-13	5/21/2013	12:44	Area B East Wall	1.8	12:53	50.9	20.0	1	KC
SC-14	5/21/2013	12:45	Area B West Wall	2.1	12:55	48.1	20.0	1	KC
SC-15	5/21/2013	12:46	Area B Base	1.4	12:58	53.7	20.0	1	KC
SC-16	5/21/2013	13:40	Area C North Wall	4.8	14:51	52.3	20.0	1	KC
SC-17	5/21/2013	13:31	Area C South Wall	1.9	14:44	59.3	20.0	1	KC
SC-18	5/21/2013	13:20	Area C East Wall	2.1	13:53	46.6	20.0	1	KC
SC-19	5/21/2013	13:30	Area C West Wall	0.4	14:50	69.1	20.0	1	KC
SC-20	5/21/2013	13:23	Area C Base	64.3	14:14	484	20.0	1	KC

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

Analyst:

Kelsey Christman



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

December 19, 2012

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP Ute #12

OrderNo.: 1212360

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/7/2012 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. 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. 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.

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 1212360

Date Reported: 12/19/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: COP Ute #12

Collection Date: 12/6/2012 1:25:00 PM

Lab ID: 1212360-001

Matrix: SOIL

Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	11000	200		mg/Kg	20	12/11/2012 8:41:00 AM
Surr: DNOP	0	72.4-120	S	%REC	20	12/11/2012 8:41:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	370	96		mg/Kg	20	12/11/2012 5:31:44 PM
Surr: BFB	178	84-116	S	%REC	20	12/11/2012 5:31:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.96		mg/Kg	20	12/11/2012 5:31:44 PM
Toluene	ND	0.96		mg/Kg	20	12/11/2012 5:31:44 PM
Ethylbenzene	1.1	0.96		mg/Kg	20	12/11/2012 5:31:44 PM
Xylenes, Total	15	1.9		mg/Kg	20	12/11/2012 5:31:44 PM
Surr: 4-Bromofluorobenzene	99.8	80-120		%REC	20	12/11/2012 5:31:44 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	12/17/2012 10:00:03 AM
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Arsenic	7.1	2.5		mg/Kg	1	12/18/2012 9:09:22 AM
Barium	150	0.50		mg/Kg	5	12/18/2012 9:42:06 AM
Cadmium	ND	0.10		mg/Kg	1	12/18/2012 9:09:22 AM
Chromium	4.2	0.30		mg/Kg	1	12/18/2012 9:09:22 AM
Copper	8.5	0.30		mg/Kg	1	12/18/2012 9:09:22 AM
Lead	3.8	0.25		mg/Kg	1	12/18/2012 9:09:22 AM
Nickel	3.6	0.50		mg/Kg	1	12/18/2012 9:09:22 AM
Selenium	ND	2.5		mg/Kg	1	12/18/2012 9:09:22 AM
Silver	ND	0.25		mg/Kg	1	12/18/2012 9:09:22 AM
Zinc	24	2.5		mg/Kg	1	12/18/2012 9:09:22 AM
SAR SOLUBLE CATIONS						Analyst: ELS
Calcium	1900	1.0		mg/L	1	12/18/2012 7:43:00 AM
Magnesium	390	1.0		mg/L	1	12/18/2012 7:43:00 AM
Sodium	16000	1.0		mg/L	1	12/18/2012 7:43:00 AM
Sodium Adsorption Ratio	89	0			1	12/18/2012 7:43:00 AM
EPA METHOD 8270C: PAHS						Analyst: JDC
Naphthalene	4.1	0.40		mg/Kg	10	12/11/2012 12:41:09 PM
1-Methylnaphthalene	2.4	0.40		mg/Kg	10	12/11/2012 12:41:09 PM
2-Methylnaphthalene	11	0.40		mg/Kg	10	12/11/2012 12:41:09 PM
Acenaphthylene	ND	0.40		mg/Kg	10	12/11/2012 12:41:09 PM
Acenaphthene	ND	0.40		mg/Kg	10	12/11/2012 12:41:09 PM
Fluorene	0.54	0.40		mg/Kg	10	12/11/2012 12:41:09 PM
Phenanthrene	0.28	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Anthracene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Fluoranthene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **1212360**Date Reported: **12/19/2012****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-1**Project:** COP Ute #12**Collection Date:** 12/6/2012 1:25:00 PM**Lab ID:** 1212360-001**Matrix:** SOIL**Received Date:** 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: PAHS						Analyst: JDC
Pyrene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Benz(a)anthracene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Chrysene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Benzo(b)fluoranthene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Benzo(k)fluoranthene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Benzo(a)pyrene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Dibenz(a,h)anthracene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Benzo(g,h,i)perylene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg	1	12/11/2012 12:06:02 PM
Surr: Benzo(e)pyrene	48.9	44.9-129		%REC	1	12/11/2012 12:06:02 PM
Surr: N-hexadecane	0	45.4-126	S	%REC	10	12/11/2012 12:41:09 PM
CONDUCTANCE						Analyst: TAF
Specific Conductance	6900	1.0		µmhos/cm	1	12/19/2012 8:03:00 AM
SM4500-H+B: PH						Analyst: IDC
pH	8.12	1.68		pH Units	1	12/13/2012 5:15:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 17, 2012

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

ESC Sample # : L611141-01

Date Received : December 14, 2012
Description :

Site ID :

Sample ID : 1212360-001B SC-1

Project # :

Collected By :
Collection Date : 12/06/12 13:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	12/17/12	1
ORP	200		mV	2580	12/15/12	1
pH	8.1		su	9045D	12/17/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/17/12 15:29 Printed: 12/17/12 15:29
L611141-01 (PH) - 8.1@22.4c



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L611141

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

December 17, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium, Hexavalent	< 2	mg/kg			WG628065	12/17/12 13:35

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
ORP	mV	200.	190.	3.62	20	L611054-01	WG628232
Chromium, Hexavalent	mg/kg	0	0	0	20	L610592-03	WG628065
Chromium, Hexavalent	mg/kg	0.400	0.920	78.8*	20	L610592-04	WG628065
pH	su	4.60	4.60	0.434	1	L611048-01	WG628397
pH	su	8.20	8.10	0.860	1	L611452-08	WG628397

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
ORP	mV	228	234.	103.	95.6-104.	WG628232
Chromium, Hexavalent	mg/kg	261	227.	87.0	80-120	WG628065
pH	su	6.03	6.01	99.7	98-101.6	WG628397

Analyte	Units	Result	Ref	Sample %Rec	Limit	RPD	Limit	Batch
ORP	mV	234.	234.	103.	95.6-104.	0	20	WG628232
Chromium, Hexavalent	mg/kg	233.	227.	89.0	80-120	2.61	20	WG628065
pH	su	6.03	6.01	100.	98-101.6	0.332	20	WG628397

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Chromium, Hexavalent	mg/kg	2.88	0	20	14.4*	75-125	L610592-02	WG628065

Analyte	Units	MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	1.24	2.88	6.20*	75-125	79.6*	20	L610592-02	WG628065

Batch number /Run number / Sample number cross reference

WG628232: R2479837: L611141-01
WG628065: R2480877: L611141-01
WG628397: R2481017: L611141-01

* * 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#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5158	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	5158	RunNo:	7361					
Prep Date:	12/7/2012	Analysis Date:	12/7/2012	SeqNo:	213505	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.7		10.00		96.9	72.4	120			

Sample ID	LCS-5158	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	5158	RunNo:	7361					
Prep Date:	12/7/2012	Analysis Date:	12/7/2012	SeqNo:	213516	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.6	47.4	122			
Surr: DNOP	4.2		5.000		84.0	72.4	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	1212385-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	5186	RunNo:	7465					
Prep Date:	12/10/2012	Analysis Date:	12/12/2012	SeqNo:	216508	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.74	0	101	70	130			
Surr: BFB	1500		949.7		159	84	116			S

Sample ID	1212385-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	5186	RunNo:	7465					
Prep Date:	12/10/2012	Analysis Date:	12/12/2012	SeqNo:	216509	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.67	0	105	70	130	3.67	22.1	
Surr: BFB	1900		947.0		197	84	116	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	mb-5196		SampType:	MBLK		TestCode:	EPA Method 8270C: PAHs			
Client ID:	PBS		Batch ID:	5196		RunNo:	7422			
Prep Date:	12/10/2012		Analysis Date:	12/11/2012		SeqNo:	215077		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	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								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: Benzo(e)pyrene	0.27		0.3300		81.2	44.9	129			
Surr: N-hexadecane	1.1		1.460		72.3	45.4	126			

Sample ID	lcs-5196		SampType:	LCS		TestCode:	EPA Method 8270C: PAHs			
Client ID:	LCSS		Batch ID:	5196		RunNo:	7422			
Prep Date:	12/10/2012		Analysis Date:	12/11/2012		SeqNo:	215078		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	77.4	52	107			
1-Methylnaphthalene	0.26	0.020	0.3300	0	78.6	54.7	112			
2-Methylnaphthalene	0.25	0.020	0.3300	0	76.7	50.2	112			
Acenaphthylene	0.30	0.020	0.3300	0	90.3	53.3	111			
Acenaphthene	0.31	0.020	0.3300	0	93.2	50	120			
Fluorene	0.30	0.020	0.3300	0	89.4	50.8	115			
Phenanthrene	0.30	0.020	0.3300	0	92.2	54.1	124			
Anthracene	0.30	0.020	0.3300	0	90.8	53.9	117			
Fluoranthene	0.30	0.020	0.3300	0	90.5	54.5	112			
Pyrene	0.28	0.020	0.3300	0	86.2	51.2	113			
Benz(a)anthracene	0.28	0.020	0.3300	0	86.0	54.9	109			
Chrysene	0.19	0.020	0.3300	0	58.3	49	112			
Benzo(b)fluoranthene	0.24	0.020	0.3300	0	73.9	58.2	118			
Benzo(k)fluoranthene	0.29	0.020	0.3300	0	87.5	53.5	118			
Benzo(a)pyrene	0.26	0.020	0.3300	0	79.5	50.1	118			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	lcs-5196		SampType: LCS		TestCode: EPA Method 8270C: PAHs					
Client ID:	LCSS		Batch ID: 5196		RunNo: 7422					
Prep Date:	12/10/2012		Analysis Date: 12/11/2012		SeqNo: 215078		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	0.27	0.020	0.3300	0	82.3	59.5	113			
Benzo(g,h,i)perylene	0.29	0.020	0.3300	0	86.6	56.5	117			
Indeno(1,2,3-cd)pyrene	0.28	0.020	0.3300	0	83.9	58.5	114			
Surr: Benzo(e)pyrene	0.24		0.3300		72.9	44.9	129			
Surr: N-hexadecane	1.3		1.460		91.4	45.4	126			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	1212360-001ADUP	SampType:	DUP	TestCode:	CONDUCTANCE					
Client ID:	SC-1	Batch ID:	R7578	RunNo:	7578					
Prep Date:		Analysis Date:	12/19/2012	SeqNo:	219972	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Conductance	6900	1.0						0	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5289	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	5289	RunNo:	7527					
Prep Date:	12/17/2012	Analysis Date:	12/17/2012	SeqNo:	218472	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-5289	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	5289	RunNo:	7527					
Prep Date:	12/17/2012	Analysis Date:	12/17/2012	SeqNo:	218473	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	103	80	120			

Sample ID	1212360-001AMS	SampType:	MS	TestCode:	EPA Method 7471: Mercury					
Client ID:	SC-1	Batch ID:	5289	RunNo:	7527					
Prep Date:	12/17/2012	Analysis Date:	12/17/2012	SeqNo:	218475	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1643	0.008724	105	75	125			

Sample ID	1212360-001AMSD	SampType:	MSD	TestCode:	EPA Method 7471: Mercury					
Client ID:	SC-1	Batch ID:	5289	RunNo:	7527					
Prep Date:	12/17/2012	Analysis Date:	12/17/2012	SeqNo:	218476	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1657	0.008724	106	75	125	1.27	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5292	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	5292	RunNo:	7561					
Prep Date:	12/17/2012	Analysis Date:	12/18/2012	SeqNo:	219504	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	ND	2.5								

Sample ID	LCS-5292	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	5292	RunNo:	7561					
Prep Date:	12/17/2012	Analysis Date:	12/18/2012	SeqNo:	219505	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.5	25.00	0	91.4	80	120			
Barium	22	0.10	25.00	0	89.4	80	120			
Cadmium	22	0.10	25.00	0	88.7	80	120			
Chromium	22	0.30	25.00	0	89.7	80	120			
Copper	23	0.30	25.00	0	90.8	80	120			
Lead	22	0.25	25.00	0	88.9	80	120			
Nickel	21	0.50	25.00	0	85.5	80	120			
Selenium	22	2.5	25.00	0	87.4	80	120			
Silver	4.9	0.25	5.000	0.1050	96.6	80	120			
Zinc	22	2.5	25.00	0	89.8	80	120			

Sample ID	1212338-001AMS	SampType:	MS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	BatchQC	Batch ID:	5292	RunNo:	7561					
Prep Date:	12/17/2012	Analysis Date:	12/18/2012	SeqNo:	219510	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	19	2.5	24.91	0.8300	74.1	75	125			S
Cadmium	18	0.10	24.91	0	73.0	75	125			S
Chromium	20	0.30	24.91	1.446	72.6	75	125			S
Lead	20	0.25	24.91	2.284	69.6	75	125			S
Selenium	17	2.5	24.91	0	69.1	75	125			S
Silver	3.7	0.25	4.982	0.05163	72.9	75	125			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	1212338-001AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	BatchQC	Batch ID:	5292	RunNo:	7561					
Prep Date:	12/17/2012	Analysis Date:	12/18/2012	SeqNo:	219511	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	20	2.5	24.55	0.8300	78.1	75	125	3.62	20	
Cadmium	19	0.10	24.55	0	76.9	75	125	3.80	20	
Chromium	20	0.30	24.55	1.446	77.5	75	125	4.65	20	
Lead	20	0.25	24.55	2.284	73.4	75	125	3.49	20	S
Selenium	18	2.5	24.55	0	73.2	75	125	4.32	20	S
Silver	3.9	0.25	4.911	0.05163	77.5	75	125	4.66	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212360

19-Dec-12

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID		1212360-001ADUP		SampType:		DUP		TestCode:		SM4500-H+B: pH	
Client ID:		SC-1		Batch ID:		R7490		RunNo:		7490	
Prep Date:				Analysis Date:		12/13/2012		SeqNo:		217055	
								Units:		pH Units	
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC	
pH		8.08		1.68						LowLimit	
										HighLimit	
										%RPD	
										RPDLimit	
										Qual	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-410;
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1212360
Received by/date:	<i>[Signature]</i> 12/07/12		
Logged By:	Lindsay Mangin	12/7/2012 10:00:00 AM	<i>[Signature]</i>
Completed By:	Lindsay Mangin	12/7/2012 12:04:34 PM	<i>[Signature]</i>
Reviewed By:	<i>[Signature]</i> 12/07/12		

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. 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)

17. 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:	_____		

18. Additional remarks:

19. Cooler Information

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

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington NM 87401

Phone #: 505 564 2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☐ Standard ☒ Rush 5 day TAT

CoP Lite #12

Project Manager:

Sampler: D Watson

On Ice ☒ Yes ☐ No

Sample Temperature 150

Container
Type and #Preservative
Type

HEALING

121234

208-3

- 061

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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


Analysis Request

[illegible]

Date:	Time:	Relinquished by:
12/6/12	1647	Debra Water

Date:	Time:	Relinquished by:
12/6/12	1715	Master Waelen

Received by:	Date	Time
<i>Christine L. Peters</i>	12/6/12	10:47

Received by:  Date 12/07/12 Time 1000

Remarks: Bill to Conoco Phillips
WO: 9344655
Area: 1
User ID: GARRECD
ordered by: Crystal Tafaya
Supervisor: Richard Lopez

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.

Standards for Spill Clean-up and Reclamation
Ute Mountain Ute Tribe
Based on Colorado Oil and Gas Commission Standards

Note: Samples must be collected by a qualified professional and samples analyzed by a qualified laboratory (EPA certification recommended). At a minimum sufficient quality assurance/quality control data should be provided with analyses. These should be sent to Scott Clow, Environmental Programs Director, PO Box 448, Towaoc, CO 81334, or delivered to 520 Sunset Blvd. Towaoc, CO during regular business hours of 8 am to 4:30 pm, Monday through Friday. Other contact information: (970) 564-5432; FAX (970) 565-2651; cellular phone (970) 749-3508.

The Ute Mountain Ute Environmental Programs Department can do sampling on behalf of the Operator/Leasee with the understanding that analytical costs will be reimbursed to the Tribe.

Pollutant Concentrations in Soil and Water

CONCENTRATION LEVELS	Contaminant of Concern	Concentrations
Organic Compounds in Soil		
TPH (total volatile and extractable hydrocarbons)	petroleum	500 mg/kg
Benzene		0.17 mg/kg ²
Toluene		85 mg/kg ²
Ethylbenzene		100 mg/kg ²
Xylenes (total)		175 mg/kg ²
Acenaphthene		1,000 mg/kg ²
Anthracene		1,000 mg/kg ²
Benzo(A)anthracene		0.22 mg/kg ²
Benzo(B)fluoranthene		0.22 mg/kg ²
Benzo(K)fluoranthene		2.2 mg/kg ²
Benzo(A)pyrene		0.022 mg/kg ²
Chrysene		22 mg/kg ²
Dibenzo(A,H)anthracene		0.022 mg/kg ²
Fluoranthene		1,000 mg/kg ²
Fluorene		1,000 mg/kg ²
Indeno(1,2,3,C,D)pyrene		0.22 mg/kg ²
Napthalene		23 mg/kg ²

8021
BTEX
6/10
DEP

8270
Sims
1.5
mult.

Pyrene	1,000 mg/kg ₂
Organic Compounds in Ground Water	
Benzene	5 µg/l ₃
Toluene	560 to 1,000 µg/l ₃
Ethylbenzene	700 µg/l ₃
Xylenes (Total)	1,400 to 10,000 µg/l _{3,4}
Inorganics in Soils	
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background
Sodium Adsorption Ratio (SAR)	<12 ₅
pH	6-9
Inorganics in Ground Water	
Total Dissolved Solids (TDS)	<1.25 x background ₃
Chlorides	<1.25 x background ₃
Sulfates	<1.25 x background ₃
Metals in Soils	
Arsenic	0.39 mg/kg ₂
Barium (LDNR True Total Barium)	15,000 mg/kg ₂
Boron (Hot Water Soluble)	2 mg/l ₃
Cadmium	70 mg/kg _{3,6}
Chromium (III)	120,000 mg/kg ₂
Chromium (VI)	23 mg/kg _{2,6}
Copper	3,100 mg/kg ₂
Lead (inorganic)	400 mg/kg ₂
Mercury	23 mg/kg ₂
Nickel (soluble salts)	1,600 mg/kg _{2,6}
Selenium	390 mg/kg _{2,6}
Silver	390 mg/kg ₂
Zinc	23,000 mg/kg _{2,6}
Liquid Hydrocarbons in Soils and Ground Water	
Liquid hydrocarbons including condensate and oil	Below detection level

Metals in Soil
Hydrocarbons in Soil
*



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

February 04, 2013

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP Ute #12

OrderNo.: 1301920

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/29/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued February 04, 2013.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1 SC-2 Irc

Project: COP Ute #12

Collection Date: 1/25/2013 4:45:00 PM

Lab ID: 1301920-001

Matrix: SOIL

Received Date: 1/29/2013 10:20:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS							Analyst: MMD
Diesel Range Organics (DRO)	2200	61.77645	100		mg/Kg	10	1/31/2013 11:15:20 AM
Motor Oil Range Organics (MRO)	ND	499.00200	500		mg/Kg	10	1/31/2013 11:15:20 AM
Surr: DNOP	0	0.00000	72.4-120	S	%REC	10	1/31/2013 11:15:20 AM
EPA METHOD 8015B: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	44	4.25846	19		mg/Kg	4	1/31/2013 12:15:32 PM
Surr: BFB	148	0.00000	84-116	S	%REC	4	1/31/2013 12:15:32 PM
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.01192	0.19		mg/Kg	4	1/31/2013 12:15:32 PM
Toluene	0.021	0.01231	0.19	J	mg/Kg	4	1/31/2013 12:15:32 PM
Ethylbenzene	0.079	0.01346	0.19	J	mg/Kg	4	1/31/2013 12:15:32 PM
Xylenes, Total	0.32	0.04346	0.38	J	mg/Kg	4	1/31/2013 12:15:32 PM
Surr: 4-Bromofluorobenzene	103	0.00000	80-120		%REC	4	1/31/2013 12:15:32 PM
EPA METHOD 7471: MERCURY							Analyst: TMG
Mercury	0.020	0.00164	0.033	J	mg/kg	1	1/31/2013 8:07:12 AM
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Arsenic	1.9	0.62632	2.5	J	mg/Kg	1	1/31/2013 7:43:31 AM
Barium	160	0.30451	0.50		mg/Kg	5	1/31/2013 7:45:51 AM
Cadmium	0.037	0.02710	0.10	J	mg/Kg	1	1/31/2013 7:43:31 AM
Chromium	4.9	0.11840	0.30		mg/Kg	1	1/31/2013 7:43:31 AM
Copper	9.0	0.23231	0.30		mg/Kg	1	1/31/2013 7:43:31 AM
Lead	3.5	0.21941	0.25		mg/Kg	1	1/31/2013 7:43:31 AM
Nickel	3.7	0.16681	0.50		mg/Kg	1	1/31/2013 7:43:31 AM
Selenium	ND	1.40255	2.5		mg/Kg	1	1/31/2013 7:43:31 AM
Silver	ND	0.03540	0.25		mg/Kg	1	1/31/2013 7:43:31 AM
Zinc	24	1.00664	2.5		mg/Kg	1	1/31/2013 7:43:31 AM
SAR SOLUBLE CATIONS							Analyst: JLF
Calcium	1600	0.48650	1.0		mg/L	1	1/31/2013 9:58:00 AM
Magnesium	380	0.34400	1.0		mg/L	1	1/31/2013 9:58:00 AM
Sodium	11000	0.87900	1.0		mg/L	1	1/31/2013 9:58:00 AM
Sodium Adsorption Ratio	63	0.00000	0			1	1/31/2013 9:58:00 AM
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	0.46	0.00434	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
1-Methylnaphthalene	0.53	0.00395	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
2-Methylnaphthalene	4.3	0.03997	0.20		mg/Kg	10	2/1/2013 11:27:55 AM
Acenaphthylene	ND	0.02405	0.10		mg/Kg	5	1/31/2013 4:29:18 PM
Acenaphthene	ND	0.02881	0.10		mg/Kg	5	1/31/2013 4:29:18 PM
Fluorene	ND	0.02053	0.10		mg/Kg	5	1/31/2013 4:29:18 PM
Phenanthrene	0.11	0.00324	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Anthracene	ND	0.00316	0.020		mg/Kg	1	1/31/2013 3:17:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1301920

Date Reported: 2/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC+ SC-2 lrc

Project: COP Ute #12

Collection Date: 1/25/2013 4:45:00 PM

Lab ID: 1301920-001

Matrix: SOIL

Received Date: 1/29/2013 10:20:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: PAHS							Analyst: JDC
Fluoranthene	ND	0.00355	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Pyrene	ND	0.00485	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Benz(a)anthracene	ND	0.00568	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Chrysene	ND	0.00376	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Benzo(b)fluoranthene	0.0050	0.00474	0.020	J	mg/Kg	1	1/31/2013 3:17:05 PM
Benzo(k)fluoranthene	ND	0.00581	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Benzo(a)pyrene	ND	0.00391	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Dibenz(a,h)anthracene	ND	0.00389	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Benzo(g,h,i)perylene	ND	0.00506	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Indeno(1,2,3-cd)pyrene	ND	0.00783	0.020		mg/Kg	1	1/31/2013 3:17:05 PM
Surr: Benzo(e)pyrene	105	0.00000	44.9-129		%REC	1	1/31/2013 3:17:05 PM
Surr: N-hexadecane	0	0.00000	45.4-126	S	%REC	5	1/31/2013 4:29:18 PM
CONDUCTANCE							Analyst: TAF
Specific Conductance	5200	0.00000	1.0		µmhos/cm	1	1/31/2013 7:02:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 01, 2013

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

Date Received : January 30, 2013
Description :
Sample ID : 1301920-001C sc-1 SC-2 lrc
Collected By :
Collection Date : 01/25/13 16:45

ESC Sample # : 1617639-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	02/01/13	1
ORP	58.		mV	2580 B-2011	01/31/13	1
pH	8.2		su	9045D	01/31/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/01/13 15:31 Printed: 02/01/13 15:40

1617639-01 (PH) - 8.2@20.3c



YOUR LAB CHOICE

Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L617639

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 01, 2013

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Chromium, Hexavalent	< 2	mg/kg		WG634626	02/01/13 13:44

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
ORP	mV	240.	230.	3.42	20	L617129-01	WG634580
ORP	mV	57.0	58.0	1.74	20	L617639-01	WG634580
pH	su	8.20	8.20	0	1	L617639-01	WG634633
Chromium, Hexavalent	mg/kg	0	0	0	20	L617639-01	WG634626

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
ORP	mV	228	226.	99.1	95.6-104.	WG634580
pH	su	5.7	5.72	100.	98.25-101.75	WG634633
Chromium, Hexavalent	mg/kg	261	214.	82.0	80-120	WG634626

Analyte	Units	Result	Laboratory Control Ref	Sample Duplicate %Rec	Limit	RPD	Limit	Batch
ORP	mV	227.	226.	100.	95.6-104.	0.442	20	WG634580
pH	su	5.73	5.72	100.	98.25-101.75	0.175	20	WG634633
Chromium, Hexavalent	mg/kg	215.	214.	82.0	80-120	0.466	20	WG634626

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	19.6	0	20	98.0	75-125	L617645-02	WG634626

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	19.8	19.6	99.0	75-125	1.02	20	L617645-02	WG634626

Batch number /Run number / Sample number cross reference

WG634580: R2525258: L617639-01
WG634633: R2525299: L617639-01
WG634626: R2525957: L617639-01

* * 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#: 1301920

04-Feb-13

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5902	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	5902	RunNo:	8358					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241455	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.1	72.4	120			

Sample ID	LCS-5902	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	5902	RunNo:	8358					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241456	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.1	47.4	122			
Surr: DNOP	4.9		5.000		98.1	72.4	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301920

04-Feb-13

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5894	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	5894	RunNo:	8360					
Prep Date:	1/29/2013	Analysis Date:	1/30/2013	SeqNo:	241161	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	990		1000		99.5	84	116			

Sample ID	LCS-5894	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5894	RunNo:	8360					
Prep Date:	1/29/2013	Analysis Date:	1/30/2013	SeqNo:	241162	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	74	117			
Surr: BFB	1000		1000		104	84	116			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R8391	RunNo:	8391					
Prep Date:		Analysis Date:	1/31/2013	SeqNo:	241924	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	84	116			

Sample ID	2.5UG GRO LCSB	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R8391	RunNo:	8391					
Prep Date:		Analysis Date:	1/31/2013	SeqNo:	241925	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	84	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301920

04-Feb-13

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5894		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	5894		RunNo:	8360				
Prep Date:	1/29/2013		Analysis Date:	1/30/2013		SeqNo:	241166		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	0.0055	0.050								J	
Xylenes, Total	0.019	0.10								J	
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120				

Sample ID	LCS-5894		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 5894		RunNo: 8360					
Prep Date:	1/29/2013		Analysis Date: 1/30/2013		SeqNo: 241167		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301920

04-Feb-13

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	mb-5906		SampType: MBLK		TestCode: EPA Method 8270C: PAHs					
Client ID:	PBS		Batch ID: 5906		RunNo: 8390					
Prep Date:	1/30/2013		Analysis Date: 1/31/2013		SeqNo: 241908		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	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	0.0063	0.020								J
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: Benzo(e)pyrene	0.35		0.3300		106	44.9	129			
Surr: N-hexadecane	1.4		1.460		94.2	45.4	126			

Sample ID	lcs-5906		SampType: LCS		TestCode: EPA Method 8270C: PAHs					
Client ID:	LCSS		Batch ID: 5906		RunNo: 8390					
Prep Date:	1/30/2013		Analysis Date: 1/31/2013		SeqNo: 241910		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.35	0.020	0.3300	0	105	52	107			
1-Methylnaphthalene	0.35	0.020	0.3300	0	106	54.7	112			
2-Methylnaphthalene	0.35	0.020	0.3300	0	107	50.2	112			
Acenaphthylene	0.37	0.020	0.3300	0	112	53.3	111			S
Acenaphthene	0.38	0.020	0.3300	0	114	50	120			
Fluorene	0.37	0.020	0.3300	0	112	50.8	115			
Phenanthrene	0.39	0.020	0.3300	0	119	54.1	124			
Anthracene	0.38	0.020	0.3300	0	116	53.9	117			
Fluoranthene	0.40	0.020	0.3300	0	120	54.5	112			S
Pyrene	0.39	0.020	0.3300	0	117	51.2	113			S
Benz(a)anthracene	0.39	0.020	0.3300	0	118	54.9	109			S
Chrysene	0.36	0.020	0.3300	0	110	49	112			
Benzo(b)fluoranthene	0.37	0.020	0.3300	0	113	58.2	118			
Benzo(k)fluoranthene	0.37	0.020	0.3300	0	112	53.5	118			
Benzo(a)pyrene	0.36	0.020	0.3300	0	109	50.1	118			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301920

04-Feb-13

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	lcs-5906		SampType:	LCS		TestCode:	EPA Method 8270C: PAHs			
Client ID:	LCSS		Batch ID:	5906		RunNo:	8390			
Prep Date:	1/30/2013		Analysis Date:	1/31/2013		SeqNo:	241910		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	0.37	0.020	0.3300	0	113	59.5	113			S
Benzo(g,h,i)perylene	0.39	0.020	0.3300	0	118	56.5	117			S
Indeno(1,2,3-cd)pyrene	0.36	0.020	0.3300	0	110	58.5	114			
Surr: Benzo(e)pyrene	0.54		0.6600		81.7	44.9	129			
Surr: N-hexadecane	2.4		2.920		81.3	45.4	126			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301920

04-Feb-13

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5905	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	5905	RunNo:	8362					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241248	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-5905	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	5905	RunNo:	8362					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241249	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	99.1	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301920

04-Feb-13

Client: Animas Environmental Services

Project: COP Ute #12

Sample ID	MB-5899	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	5899	RunNo:	8364					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241288	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	ND	2.5								

Sample ID	LCS-5899	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	5899	RunNo:	8364					
Prep Date:	1/30/2013	Analysis Date:	1/31/2013	SeqNo:	241289	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	26	2.5	25.00	0	104	80	120			
Barium	27	0.10	25.00	0	107	80	120			
Cadmium	26	0.10	25.00	0	104	80	120			
Chromium	26	0.30	25.00	0	105	80	120			
Copper	27	0.30	25.00	0	110	80	120			
Lead	26	0.25	25.00	0	104	80	120			
Nickel	25	0.50	25.00	0	101	80	120			
Selenium	25	2.5	25.00	0	99.9	80	120			
Silver	5.1	0.25	5.000	0	103	80	120			
Zinc	26	2.5	25.00	0	105	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD 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: 1301920

Received by/date: MG 01/29/13

Logged By: Anne Thorne 1/29/2013 10:20:00 AM

Anne Thorne

Completed By: Anne Thorne 1/29/2013

Anne Thorne

Reviewed By: IO 01/29/2013

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. 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)

17. 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: _____

18. Additional remarks:

19. Cooler Information

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

Client: Animas Environmental
Services LLC

Mailing Address: 624 E Comanche
Farmington, NM 87401

Phone #: 505 564 2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☐ Standard ☒ Rush 5 day

CoP ute #12

Project #:

Project Manager:

D Watson



Sampler: Clamman

On Ice: ☒ Yes ☐ No

Sample Temperature: 100 °C

[illegible]

Analysis Request					
			BTEX + MTBE + TMB's (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, NO ₃ , NO ₂ , PO ₄ , SO ₄)		
			8081 Pesticides / 8082 PCB's		
			8260B (VOA)		
			8270 (Semi-VOA)		
	X		Colorado CofC 910-1		
			Air Bubbles (Y or N)		

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/28/13	11:56		Christine Watten	1/28/13	11:56
Date:	Time:	Relinquished by:	Received by:	Date	Time
1/28/13	1721	Christine Watten		01/29/13	10:52

Remarks: Bill to ConocoPhillips

Iss:	User: GARRECD
Area: 1	ordered by: Crystal
Supervisor: Richard Lopez	Tafuya

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 29, 2013

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP Ute #12 March 2013

OrderNo.: 1303459

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/12/2013 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. 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. 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.

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 Services

Client Sample ID: SC- SC-3 lrc

Project: CoP Ute #12 March 2013

Collection Date: 3/8/2013 2:25:00 PM

Lab ID: 1303459-001

Matrix: SOIL

Received Date: 3/12/2013 9:53:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS							Analyst: MMD
Diesel Range Organics (DRO)	53	6.4	10		mg/Kg	1	3/22/2013 11:40:14 PM
Motor Oil Range Organics (MRO)	ND	52	52		mg/Kg	1	3/22/2013 11:40:14 PM
Surr: DNOP	96.6	0	72.4-120		%REC	1	3/22/2013 11:40:14 PM
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	2100	7.8	75		mg/Kg	50	3/15/2013 12:06:57 PM
EPA METHOD 7471: MERCURY							Analyst: TMG
Mercury	0.0079	0.0016	0.033	J	mg/kg	1	3/18/2013 10:35:17 AM
EPA METHOD 6010B: SOIL METALS							Analyst: ELS
Arsenic	ND	3.1	12		mg/Kg	5	3/14/2013 10:03:29 AM
Barium	190	0.30	0.50		mg/Kg	5	3/14/2013 10:03:29 AM
Cadmium	ND	0.14	0.50		mg/Kg	5	3/14/2013 10:03:29 AM
Chromium	6.4	0.59	1.5		mg/Kg	5	3/14/2013 10:03:29 AM
Copper	10	1.2	1.5		mg/Kg	5	3/14/2013 10:03:29 AM
Lead	4.4	1.1	1.2		mg/Kg	5	3/14/2013 10:03:29 AM
Nickel	5.0	0.83	2.5		mg/Kg	5	3/14/2013 10:03:29 AM
Selenium	ND	7.0	12		mg/Kg	5	3/18/2013 11:46:30 AM
Silver	ND	0.18	1.2		mg/Kg	5	3/14/2013 10:03:29 AM
Zinc	37	5.0	12		mg/Kg	5	3/14/2013 10:03:29 AM
SAR SOLUBLE CATIONS							Analyst: JLF
Calcium	330	0.49	1.0		mg/L	1	3/25/2013 9:28:00 AM
Magnesium	50	0.34	1.0		mg/L	1	3/25/2013 9:28:00 AM
Sodium	6700	0.88	1.0		mg/L	1	3/25/2013 9:28:00 AM
Sodium Adsorption Ratio	91	0	0			1	3/25/2013 9:28:00 AM
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	0.0047	0.0044	0.020	J	mg/Kg	1	3/14/2013 4:32:16 PM
Acenaphthene	ND	0.0058	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Fluorene	ND	0.0041	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Anthracene	ND	0.0032	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Fluoranthene	0.0043	0.0036	0.020	J	mg/Kg	1	3/14/2013 4:32:16 PM
Pyrene	ND	0.0049	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Benz(a)anthracene	ND	0.0057	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Chrysene	ND	0.0038	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Benzo(b)fluoranthene	ND	0.0048	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Benzo(k)fluoranthene	ND	0.0058	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Benzo(a)pyrene	ND	0.0039	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Dibenz(a,h)anthracene	ND	0.0039	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Indeno(1,2,3-cd)pyrene	ND	0.0079	0.020		mg/Kg	1	3/14/2013 4:32:16 PM
Surr: Benzo(e)pyrene	106	0	44.9-129		%REC	1	3/14/2013 4:32:16 PM
Surr: N-hexadecane	204	0	45.4-126	S	%REC	1	3/14/2013 4:32:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1303459

Date Reported: 3/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3 lrc

Project: CoP Ute #12 March 2013

Collection Date: 3/8/2013 2:25:00 PM

Lab ID: 1303459-001

Matrix: SOIL

Received Date: 3/12/2013 9:53:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.0019	0.047		mg/Kg	1	3/15/2013 2:33:16 PM
Toluene	ND	0.0023	0.047		mg/Kg	1	3/15/2013 2:33:16 PM
Ethylbenzene	ND	0.0019	0.047		mg/Kg	1	3/15/2013 2:33:16 PM
Xylenes, Total	ND	0.024	0.093		mg/Kg	1	3/15/2013 2:33:16 PM
Surr: 1,2-Dichloroethane-d4	85.7	0	70-130		%REC	1	3/15/2013 2:33:16 PM
Surr: 4-Bromofluorobenzene	83.6	0	70-130		%REC	1	3/15/2013 2:33:16 PM
Surr: Dibromofluoromethane	91.2	0	70-130		%REC	1	3/15/2013 2:33:16 PM
Surr: Toluene-d8	104	0	70-130		%REC	1	3/15/2013 2:33:16 PM
EPA METHOD 8015B MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.82	4.7		mg/Kg	1	3/15/2013 2:33:16 PM
Surr: BFB	83.6	0	70-130		%REC	1	3/15/2013 2:33:16 PM
CONDUCTANCE							Analyst: TAF
Specific Conductance	5000	0	1.0		µmhos/c	1	3/15/2013 7:16:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1303459

Date Reported: 3/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2 SC-4 lrc

Project: CoP Ute #12 March 2013

Collection Date: 3/8/2013 2:29:00 PM

Lab ID: 1303459-002

Matrix: SOIL

Received Date: 3/12/2013 9:53:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS							Analyst: MMD
Diesel Range Organics (DRO)	ND	6.3	10		mg/Kg	1	3/23/2013 1:02:07 AM
Motor Oil Range Organics (MRO)	ND	51	51		mg/Kg	1	3/23/2013 1:02:07 AM
Surr: DNOP	99.7	0	72.4-120		%REC	1	3/23/2013 1:02:07 AM
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	130	3.1	30		mg/Kg	20	3/14/2013 12:35:18 PM
EPA METHOD 7471: MERCURY							Analyst: TMG
Mercury	0.043	0.0016	0.033		mg/kg	1	3/18/2013 10:37:08 AM
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Arsenic	ND	3.1	12		mg/Kg	5	3/18/2013 11:48:51 AM
Barium	130	0.30	0.50		mg/Kg	5	3/14/2013 10:20:11 AM
Cadmium	ND	0.14	0.50		mg/Kg	5	3/14/2013 10:20:11 AM
Chromium	7.7	0.59	1.5		mg/Kg	5	3/14/2013 10:20:11 AM
Copper	9.5	1.2	1.5		mg/Kg	5	3/14/2013 10:20:11 AM
Lead	9.1	1.1	1.2		mg/Kg	5	3/18/2013 11:48:51 AM
Nickel	7.6	0.83	2.5		mg/Kg	5	3/14/2013 10:20:11 AM
Selenium	ND	7.0	12		mg/Kg	5	3/18/2013 11:48:51 AM
Silver	ND	0.18	1.2		mg/Kg	5	3/14/2013 10:20:11 AM
Zinc	44	5.0	12		mg/Kg	5	3/18/2013 11:48:51 AM
SAR SOLUBLE CATIONS							Analyst: JLF
Calcium	540	0.49	1.0		mg/L	1	3/25/2013 9:28:00 AM
Magnesium	330	0.34	1.0		mg/L	1	3/25/2013 9:28:00 AM
Sodium	370	0.88	1.0		mg/L	1	3/25/2013 9:28:00 AM
Sodium Adsorption Ratio	3.0	0	0			1	3/25/2013 9:28:00 AM
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	0.0047	0.0044	0.020	J	mg/Kg	1	3/14/2013 5:42:06 PM
Acenaphthene	ND	0.0058	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Fluorene	ND	0.0041	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Anthracene	ND	0.0032	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Fluoranthene	0.0037	0.0036	0.020	J	mg/Kg	1	3/14/2013 5:42:06 PM
Pyrene	ND	0.0049	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Benz(a)anthracene	ND	0.0057	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Chrysene	ND	0.0038	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Benzo(b)fluoranthene	0.0084	0.0048	0.020	J	mg/Kg	1	3/14/2013 5:42:06 PM
Benzo(k)fluoranthene	ND	0.0058	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Benzo(a)pyrene	ND	0.0039	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Dibenz(a,h)anthracene	ND	0.0039	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Indeno(1,2,3-cd)pyrene	ND	0.0079	0.020		mg/Kg	1	3/14/2013 5:42:06 PM
Surr: Benzo(e)pyrene	123	0	44.9-129		%REC	1	3/14/2013 5:42:06 PM
Surr: N-hexadecane	124	0	45.4-126		%REC	1	3/14/2013 5:42:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** SC-2 SC-4 lrc**Project:** CoP Ute #12 March 2013**Collection Date:** 3/8/2013 2:29:00 PM**Lab ID:** 1303459-002**Matrix:** SOIL**Received Date:** 3/12/2013 9:53:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.0019	0.047		mg/Kg	1	3/15/2013 5:40:09 AM
Toluene	ND	0.0023	0.047		mg/Kg	1	3/15/2013 5:40:09 AM
Ethylbenzene	ND	0.0020	0.047		mg/Kg	1	3/15/2013 5:40:09 AM
Xylenes, Total	ND	0.024	0.093		mg/Kg	1	3/15/2013 5:40:09 AM
Surr: 1,2-Dichloroethane-d4	85.2	0	70-130		%REC	1	3/15/2013 5:40:09 AM
Surr: 4-Bromofluorobenzene	91.9	0	70-130		%REC	1	3/15/2013 5:40:09 AM
Surr: Dibromofluoromethane	93.7	0	70-130		%REC	1	3/15/2013 5:40:09 AM
Surr: Toluene-d8	99.6	0	70-130		%REC	1	3/15/2013 5:40:09 AM
EPA METHOD 8015B MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.82	4.7		mg/Kg	1	3/15/2013 5:40:09 AM
Surr: BFB	91.9	0	70-130		%REC	1	3/15/2013 5:40:09 AM
CONDUCTANCE							Analyst: TAF
Specific Conductance	1900	0	1.0		µmhos/c	1	3/15/2013 7:16:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1303459

Date Reported: 3/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: ~~SC-3~~ SC-5 lrc

Project: CoP Ute #12 March 2013

Collection Date: 3/8/2013 2:35:00 PM

Lab ID: 1303459-003

Matrix: SOIL

Received Date: 3/12/2013 9:53:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS							Analyst: MMD
Diesel Range Organics (DRO)	850	6.3	10		mg/Kg	1	3/23/2013 1:29:21 AM
Motor Oil Range Organics (MRO)	ND	51	51		mg/Kg	1	3/23/2013 1:29:21 AM
Surr: DNOP	113	0	72.4-120		%REC	1	3/23/2013 1:29:21 AM
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	1900	7.8	75		mg/Kg	50	3/15/2013 12:19:21 PM
EPA METHOD 7471: MERCURY							Analyst: TMG
Mercury	0.0063	0.0016	0.033	J	mg/kg	1	3/18/2013 10:38:51 AM
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Arsenic	ND	3.1	12		mg/Kg	5	3/18/2013 11:58:13 AM
Barium	130	0.30	0.50		mg/Kg	5	3/14/2013 10:32:11 AM
Cadmium	ND	0.14	0.50		mg/Kg	5	3/14/2013 10:32:11 AM
Chromium	5.2	0.59	1.5		mg/Kg	5	3/14/2013 10:32:11 AM
Copper	9.7	1.2	1.5		mg/Kg	5	3/14/2013 10:32:11 AM
Lead	5.4	1.1	1.2		mg/Kg	5	3/18/2013 11:58:13 AM
Nickel	4.4	0.83	2.5		mg/Kg	5	3/14/2013 10:32:11 AM
Selenium	ND	7.0	12		mg/Kg	5	3/18/2013 11:58:13 AM
Silver	ND	0.18	1.3		mg/Kg	5	3/14/2013 10:32:11 AM
Zinc	28	5.0	12		mg/Kg	5	3/18/2013 11:58:13 AM
SAR SOLUBLE CATIONS							Analyst: JLF
Calcium	580	0.49	1.0		mg/L	1	3/25/2013 9:28:00 AM
Magnesium	67	0.34	1.0		mg/L	1	3/25/2013 9:28:00 AM
Sodium	5700	0.88	1.0		mg/L	1	3/25/2013 9:28:00 AM
Sodium Adsorption Ratio	60	0	0			1	3/25/2013 9:28:00 AM
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	0.56	0.043	0.20		mg/Kg	10	3/15/2013 11:33:06 PM
Acenaphthene	0.31	0.058	0.20		mg/Kg	10	3/15/2013 11:33:06 PM
Fluorene	0.65	0.041	0.20		mg/Kg	10	3/15/2013 11:33:06 PM
Anthracene	ND	0.0032	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Fluoranthene	0.051	0.0036	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Pyrene	0.054	0.0049	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Benz(a)anthracene	0.023	0.0057	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Chrysene	0.023	0.0038	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Benzo(b)fluoranthene	0.037	0.0047	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Benzo(k)fluoranthene	0.010	0.0058	0.020	J	mg/Kg	1	3/14/2013 6:05:21 PM
Benzo(a)pyrene	0.021	0.0039	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Dibenz(a,h)anthracene	ND	0.0039	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Indeno(1,2,3-cd)pyrene	ND	0.0078	0.020		mg/Kg	1	3/14/2013 6:05:21 PM
Surr: Benzo(e)pyrene	102	0	44.9-129		%REC	1	3/14/2013 6:05:21 PM
Surr: N-hexadecane	0	0	45.4-126	S	%REC	10	3/15/2013 11:33:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: ~~SC-3~~ SC-5 Irc

Project: CoP Ute #12 March 2013

Collection Date: 3/8/2013 2:35:00 PM

Lab ID: 1303459-003

Matrix: SOIL

Received Date: 3/12/2013 9:53:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.019	0.47		mg/Kg	10	3/15/2013 6:08:02 AM
Toluene	ND	0.023	0.47		mg/Kg	10	3/15/2013 6:08:02 AM
Ethylbenzene	0.14	0.020	0.47	J	mg/Kg	10	3/15/2013 6:08:02 AM
Xylenes, Total	5.7	0.24	0.94		mg/Kg	10	3/15/2013 6:08:02 AM
Surr: 1,2-Dichloroethane-d4	90.7	0	70-130		%REC	10	3/15/2013 6:08:02 AM
Surr: 4-Bromofluorobenzene	119	0	70-130		%REC	10	3/15/2013 6:08:02 AM
Surr: Dibromofluoromethane	93.9	0	70-130		%REC	10	3/15/2013 6:08:02 AM
Surr: Toluene-d8	91.8	0	70-130		%REC	10	3/15/2013 6:08:02 AM
EPA METHOD 8015B MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	580	8.2	47		mg/Kg	10	3/15/2013 6:08:02 AM
Surr: BFB	119	0	70-130		%REC	10	3/15/2013 6:08:02 AM
CONDUCTANCE							Analyst: TAF
Specific Conductance	4200	0	1.0		µmhos/c	1	3/15/2013 7:16:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

March 20, 2013

Date Received : March 13, 2013
Description :
Sample ID : 1303459-001B SC-1 SC-3 lrc
Collected By :
Collection Date : 03/08/13 14:25

ESC Sample # : L624607-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	03/15/13	1
ORP	140		mV	2580 B-2011	03/15/13	1
pH	8.7		su	9045D	03/20/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/20/13 16:36 Printed: 03/20/13 16:37

L624607-01 (PH) - 8.7@23.9c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

March 20, 2013

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

ESC Sample # : L624607-02

Date Received : March 13, 2013
Description :
Sample ID : 1303459-002B SC-2 SC-4 lrc

Site ID :

Collected By :
Collection Date : 03/08/13 14:29

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	50.	mg/kg	3060A/7196A	03/15/13	25
ORP	140		mV	2580 B-2011	03/15/13	1
pH	7.9		su	9045D	03/20/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/20/13 16:36 Printed: 03/20/13 16:37

L624607-02 (PH) - 7.9@22.6c

L624607-02 (CR6) - diluted due to sample color



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REPORT OF ANALYSIS

March 20, 2013

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

ESC Sample # : L624607-03

Date Received : March 13, 2013
Description :
Sample ID : 1303459-003B SC-3 SC-5 lrc
Collected By :
Collection Date : 03/08/13 14:35

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	03/15/13	1
ORP	140		mV	2580 B-2011	03/15/13	1
pH	8.4		su	9045D	03/20/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/20/13 16:36 Printed: 03/20/13 16:37
L624607-03 (PH) - 8.4@22.1c



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L624607

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

March 20, 2013

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Chromium, Hexavalent	< 2	mg/kg			WG650764	03/15/13 13:41

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	0	0	0	20	L624154-06	WG650764
Chromium, Hexavalent	mg/kg	0	0	0	20	L624323-06	WG650764
ORP	mV	0	0	0	20	L624261-01	WG650793
ORP	mV	110	110	0.913	20	L624670-01	WG650793
pH	su	5.30	7.70	36.4*	1	L624692-01	WG651729
pH	su	8.70	8.70	0.115	1	L625356-02	WG651729

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chromium, Hexavalent	mg/kg	218	225	103	80-120	WG650764
ORP	mV	228	225	98.7	95.6-104	WG650793
pH	su	5.7	5.70	100	98.25-101.75	WG651729

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	% Rec	Limit	RPD	Limit	Batch
Chromium, Hexavalent	mg/kg	220	225	101	80-120	2.25	20	WG650764
ORP	mV	226	225	99.0	95.6-104	0.443	20	WG650793
pH	su	5.69	5.70	100	98.25-101.75	0.176	20	WG651729

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	17.8	0	20	89.0	75-125	L624320-06	WG650764

Analyte	Units	MSD	Matrix Spike Duplicate Ref	% Rec	Limit	RPD	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	17.1	17.8	85.5	75-125	4.01	20	L624320-06	WG650764

Batch number / Run number / Sample number cross reference

WG650764: R2582297: L624607-01 02 03
WG650793: R2582518: L624607-01 02 03
WG651729: R2589617: L624607-01 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#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	MB-6485	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	6485	RunNo:	9186					
Prep Date:	3/14/2013	Analysis Date:	3/14/2013	SeqNo:	261163	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-6485	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	6485	RunNo:	9186					
Prep Date:	3/14/2013	Analysis Date:	3/14/2013	SeqNo:	261164	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	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 |
| 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#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	MB-6604	SampType	MBLK	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	PBS	Batch ID	6604	RunNo	9311					
Prep Date	3/21/2013	Analysis Date	3/21/2013	SeqNo	265889	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		122	72.4	120			S

Sample ID	LCS-6604	SampType	LCS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	LCSS	Batch ID	6604	RunNo	9311					
Prep Date	3/21/2013	Analysis Date	3/21/2013	SeqNo	265890	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.2	47.4	122			
Surr: DNOP	5.0		5.000		101	72.4	120			

Sample ID	MB-6604	SampType	MBLK	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	PBS	Batch ID	6604	RunNo	9345					
Prep Date	3/21/2013	Analysis Date	3/22/2013	SeqNo	267512	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.8	72.4	120			

Sample ID	LCS-6604	SampType	LCS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	LCSS	Batch ID	6604	RunNo	9345					
Prep Date	3/21/2013	Analysis Date	3/22/2013	SeqNo	267513	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	47.4	122			
Surr: DNOP	5.2		5.000		104	72.4	120			

Sample ID	1303459-001AMS	SampType	MS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	SC-1	Batch ID	6604	RunNo	9345					
Prep Date	3/21/2013	Analysis Date	3/23/2013	SeqNo	267554	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	100	10	51.98	53.38	90.1	12.6	148			
Surr: DNOP	5.2		5.198		99.8	72.4	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 |
| 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#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	1303459-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	6604	RunNo:	9345					
Prep Date:	3/21/2013	Analysis Date:	3/23/2013	SeqNo:	267557	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	120	10	50.10	53.38	134	12.6	148	18.4	22.5	
Surr: DNOP	5.6		5.010		112	72.4	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	mb-6438		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 6438		RunNo: 9181					
Prep Date:	3/12/2013		Analysis Date: 3/14/2013		SeqNo: 261864		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0046	0.050								J
Toluene	0.0051	0.050								J
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.3	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.3	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.1	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Sample ID	lcs-6438		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS		Batch ID: 6438		RunNo: 9181					
Prep Date:	3/12/2013		Analysis Date: 3/14/2013		SeqNo: 261865		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.3	70	130			
Toluene	1.0	0.050	1.000	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.7	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.4	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.2	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	mb-6463		SampType:	MBLK		TestCode:	EPA Method 8270C: PAHs				
Client ID:	PBS		Batch ID:	6463		RunNo:	9179				
Prep Date:	3/13/2013		Analysis Date:	3/14/2013		SeqNo:	261627		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Naphthalene	ND	0.020									
1-Methylnaphthalene	ND	0.020									
2-Methylnaphthalene	ND	0.020									
Acenaphthylene	ND	0.020									
Acenaphthene	ND	0.020									
Fluorene	ND	0.020									
Phenanthrene	0.0037	0.020								J	
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									
Benzo(g,h,i)perylene	ND	0.020									
Indeno(1,2,3-cd)pyrene	ND	0.020									
Surr: Benzo(e)pyrene	0.36		0.3300		110	44.9	129				
Surr: N-hexadecane	1.5		1.460		100	45.4	126				

Sample ID	lcs-6463		SampType: LCS		TestCode: EPA Method 8270C: PAHs					
Client ID:	LCSS		Batch ID: 6463		RunNo: 9179					
Prep Date:	3/13/2013		Analysis Date: 3/14/2013		SeqNo: 261628		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.29	0.020	0.3300	0	87.0	52	107			
1-Methylnaphthalene	0.31	0.020	0.3300	0	93.8	54.7	112			
2-Methylnaphthalene	0.32	0.020	0.3300	0	97.5	50.2	112			
Acenaphthylene	0.30	0.020	0.3300	0	91.9	53.3	111			
Acenaphthene	0.28	0.020	0.3300	0	83.8	50	120			
Fluorene	0.29	0.020	0.3300	0	89.2	50.8	115			
Phenanthrene	0.29	0.020	0.3300	0	86.7	54.1	124			
Anthracene	0.31	0.020	0.3300	0	93.6	53.9	117			
Fluoranthene	0.27	0.020	0.3300	0	81.9	54.5	112			
Pyrene	0.29	0.020	0.3300	0	88.8	51.2	113			
Benz(a)anthracene	0.31	0.020	0.3300	0	92.5	54.9	109			
Chrysene	0.28	0.020	0.3300	0	83.8	49	112			
Benzo(b)fluoranthene	0.32	0.020	0.3300	0	98.0	58.2	118			
Benzo(k)fluoranthene	0.29	0.020	0.3300	0	87.2	53.5	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
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#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	Ics-6463		SampType: LCS	TestCode: EPA Method 8270C: PAHs						
Client ID:	LCSS		Batch ID: 6463	RunNo: 9179						
Prep Date:	3/13/2013		Analysis Date: 3/14/2013	SeqNo: 261628		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.29	0.020	0.3300	0	89.1	50.1	118			
Dibenz(a,h)anthracene	0.33	0.020	0.3300	0	101	59.5	113			
Benzo(g,h,i)perylene	0.32	0.020	0.3300	0	95.8	56.5	117			
Indeno(1,2,3-cd)pyrene	0.32	0.020	0.3300	0	97.8	58.5	114			
Surr: Benzo(e)pyrene	0.33		0.3300		98.7	44.9	129			
Surr: N-hexadecane	1.5		1.460		102	45.4	126			

Sample ID	1303459-001Ams		SampType: MS	TestCode: EPA Method 8270C: PAHs						
Client ID:	SC-1		Batch ID: 6463	RunNo: 9179						
Prep Date:	3/13/2013		Analysis Date: 3/14/2013	SeqNo: 261633		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.31	0.020	0.3290	0.004664	91.6	55.7	95.1			
1-Methylnaphthalene	0.34	0.020	0.3290	0	104	60.8	100			S
2-Methylnaphthalene	0.35	0.020	0.3290	0.006662	105	58.1	98.5			S
Acenaphthylene	0.30	0.020	0.3290	0	92.4	56.5	101			
Acenaphthene	0.31	0.020	0.3290	0	93.4	57	107			
Fluorene	0.30	0.020	0.3290	0	91.3	61.6	100			
Phenanthrene	0.33	0.020	0.3290	0	102	68.5	115			
Anthracene	0.33	0.020	0.3290	0	100	62.5	117			
Fluoranthene	0.33	0.020	0.3290	0.004330	99.9	59.5	112			
Pyrene	0.33	0.020	0.3290	0	101	55.3	109			
Benz(a)anthracene	0.34	0.020	0.3290	0	103	52.3	115			
Chrysene	0.30	0.020	0.3290	0	91.5	52.3	113			
Benzo(b)fluoranthene	0.36	0.020	0.3290	0	109	47.1	125			
Benzo(k)fluoranthene	0.29	0.020	0.3290	0	89.6	46.9	125			
Benzo(a)pyrene	0.31	0.020	0.3290	0	93.9	55.9	115			
Dibenz(a,h)anthracene	0.37	0.020	0.3290	0	112	59.4	112			
Benzo(g,h,i)perylene	0.34	0.020	0.3290	0	103	50.2	120			
Indeno(1,2,3-cd)pyrene	0.35	0.020	0.3290	0	106	54.2	118			
Surr: Benzo(e)pyrene	0.37		0.3290		112	44.9	129			
Surr: N-hexadecane	3.7		1.456		256	45.4	126			S

Sample ID	1303459-001Amsd		SampType: MSD	TestCode: EPA Method 8270C: PAHs						
Client ID:	SC-1		Batch ID: 6463	RunNo: 9179						
Prep Date:	3/13/2013		Analysis Date: 3/14/2013	SeqNo: 261634		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.30	0.020	0.3306	0.004664	88.6	55.7	95.1	2.85	20	
1-Methylnaphthalene	0.33	0.020	0.3306	0	101	60.8	100	3.18	20	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	1303459-001Amsd	SampType:	MSD	TestCode:	EPA Method 8270C: PAHs					
Client ID:	SC-1	Batch ID:	6463	RunNo:	9179					
Prep Date:	3/13/2013	Analysis Date:	3/14/2013	SeqNo:	261634	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylnaphthalene	0.35	0.020	0.3306	0.006662	105	58.1	98.5	0.655	20	S
Acenaphthylene	0.33	0.020	0.3306	0	99.3	56.5	101	7.63	20	
Acenaphthene	0.32	0.020	0.3306	0	96.6	57	107	3.76	20	
Fluorene	0.33	0.020	0.3306	0	99.5	61.6	100	9.04	20	
Phenanthrene	0.33	0.020	0.3306	0	98.8	68.5	115	2.55	20	
Anthracene	0.33	0.020	0.3306	0	98.7	62.5	117	1.26	20	
Fluoranthene	0.33	0.020	0.3306	0.004330	98.7	59.5	112	0.738	20	
Pyrene	0.33	0.020	0.3306	0	98.5	55.3	109	2.36	20	
Benz(a)anthracene	0.34	0.020	0.3306	0	102	52.3	115	0.619	20	
Chrysene	0.30	0.020	0.3306	0	89.6	52.3	113	1.65	20	
Benzo(b)fluoranthene	0.34	0.020	0.3306	0	104	47.1	125	3.99	20	
Benzo(k)fluoranthene	0.29	0.020	0.3306	0	88.6	46.9	125	0.667	20	
Benzo(a)pyrene	0.32	0.020	0.3306	0	95.7	55.9	115	2.28	20	
Dibenz(a,h)anthracene	0.36	0.020	0.3306	0	108	59.4	112	3.40	20	
Benzo(g,h,i)perylene	0.33	0.020	0.3306	0	99.8	50.2	120	2.33	20	
Indeno(1,2,3-cd)pyrene	0.34	0.020	0.3306	0	104	54.2	118	1.45	20	
Surr: Benzo(e)pyrene	0.37		0.3306		112	44.9	129	0	0	
Surr: N-hexadecane	4.2		1.462		287	45.4	126	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	1303551-001ADUP	SampType:	DUP	TestCode:	CONDUCTANCE						
Client ID:	BatchQC	Batch ID:	R9219	RunNo:	9219						
Prep Date:		Analysis Date:	3/15/2013	SeqNo:	262182	Units:	µmhos/cm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Specific Conductance	1300	1.0						11.1	20		

Sample ID	1303459-001ADUP	SampType:	DUP	TestCode:	CONDUCTANCE						
Client ID:	SC-1	Batch ID:	R9219	RunNo:	9219						
Prep Date:		Analysis Date:	3/15/2013	SeqNo:	262208	Units:	µmhos/cm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Specific Conductance	5000	1.0						0	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	MB-6458	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	PBS	Batch ID:	6458	RunNo:	9189					
Prep Date:	3/13/2013	Analysis Date:	3/14/2013	SeqNo:	261278	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								
Silver	ND	0.25								
Zinc	ND	2.5								

Sample ID	LCS-6458	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	6458	RunNo:	9189					
Prep Date:	3/13/2013	Analysis Date:	3/14/2013	SeqNo:	261279	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	26	2.5	25.00	0	105	80	120			
Barium	25	0.10	25.00	0	101	80	120			
Cadmium	25	0.10	25.00	0	101	80	120			
Chromium	26	0.30	25.00	0	102	80	120			
Copper	26	0.30	25.00	0	104	80	120			
Lead	25	0.25	25.00	0	98.9	80	120			
Nickel	24	0.50	25.00	0	97.9	80	120			
Silver	5.1	0.25	5.000	0	102	80	120			
Zinc	26	2.5	25.00	0	102	80	120			

Sample ID	1303459-003AMS	SampType:	MS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	SC-3	Batch ID:	6458	RunNo:	9189					
Prep Date:	3/13/2013	Analysis Date:	3/14/2013	SeqNo:	261310	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	170	0.50	23.95	129.8	187	75	125			S
Cadmium	24	0.50	23.95	0	102	75	125			
Chromium	33	1.5	23.95	5.195	114	75	125			
Copper	32	1.5	23.95	9.731	93.4	75	125			
Nickel	28	2.5	23.95	4.415	100	75	125			
Silver	4.9	1.2	4.790	0	102	75	125			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	1303459-003AMSD		SampType:	MSD		TestCode:	EPA Method 6010B: Soil Metals				
Client ID:	SC-3		Batch ID:	6458		RunNo:	9189				
Prep Date:	3/13/2013		Analysis Date:	3/14/2013		SeqNo:	261311		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	210	0.50	23.90	129.8	325	75	125	17.2	20	S	
Cadmium	25	0.50	23.90	0	103	75	125	1.03	20		
Chromium	32	1.5	23.90	5.195	111	75	125	3.02	20		
Copper	32	1.5	23.90	9.731	93.6	75	125	0.0322	20		
Nickel	29	2.5	23.90	4.415	101	75	125	0.422	20		
Silver	4.8	1.2	4.781	0	100	75	125	2.61	20		

Sample ID	MB-6458	SampType:	MBLK		TestCode:	EPA Method 6010B: Soil Metals				
Client ID:	PBS	Batch ID:	6458		RunNo:	9239				
Prep Date:	3/13/2013	Analysis Date:	3/18/2013		SeqNo:	263002	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	2.5								

Sample ID	LCS-6458	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals					
Client ID:	LCSS	Batch ID:	6458	RunNo:	9239					
Prep Date:	3/13/2013	Analysis Date:	3/18/2013	SeqNo:	263003	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	24	2.5	25.00	0	94.1	80	120			

Sample ID	1303459-003AMS		SampType:	MS		TestCode:	EPA Method 6010B: Soil Metals				
Client ID:	SC-3		Batch ID:	6458		RunNo:	9239				
Prep Date:	3/13/2013		Analysis Date:	3/18/2013		SeqNo:	263561		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	31	12	23.95	0	131	75	125			S	
Lead	29	1.2	23.95	0	123	75	125				
Selenium	23	12	23.95	0	98.1	75	125				
Zinc	63	12	23.95	0	261	75	125			S	

Sample ID	1303459-003AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: Soil Metals						
Client ID:	SC-3	Batch ID:	6458	RunNo:	9239						
Prep Date:	3/13/2013	Analysis Date:	3/18/2013	SeqNo:	263562	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	26	12	23.90	0	107	75	125	20.3	20	R	
Lead	30	1.2	23.90	0	125	75	125	1.68	20	S	
Selenium	21	12	23.90	0	87.6	75	125	11.4	20		
Zinc	59	12	23.90	0	247	75	125	5.77	20	S	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303459

29-Mar-13

Client: Animas Environmental Services

Project: CoP Ute #12 March 2013

Sample ID	mb-6438	SampType:	MBLK	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	6438	RunNo:	9181					
Prep Date:	3/12/2013	Analysis Date:	3/14/2013	SeqNo:	261843	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.1	5.0								J
Surr: BFB	450		500.0		90.3	70	130			

Sample ID	LCS-6438	SampType:	LCS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	6438	RunNo:	9181					
Prep Date:	3/12/2013	Analysis Date:	3/14/2013	SeqNo:	261844	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.9	74.6	137			
Surr: BFB	440		500.0		87.2	70	130			

Sample ID	1303408-005AMS	SampType:	MS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	6438	RunNo:	9181					
Prep Date:	3/12/2013	Analysis Date:	3/15/2013	SeqNo:	261857	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.13	1.017	90.7	50.3	148			
Surr: BFB	420		482.6		86.3	70	130			

Sample ID	1303408-005AMSD	SampType:	MSD	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	6438	RunNo:	9181					
Prep Date:	3/12/2013	Analysis Date:	3/15/2013	SeqNo:	261858	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.15	1.017	89.5	50.3	148	1.22	20	
Surr: BFB	420		483.1		86.6	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
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:	1303459
Received by/date:	AC 03/12/13		
Logged By:	Michelle Garcia	3/12/2013 9:53:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	3/12/2013 11:47:33 AM	Michelle Garcia
Reviewed By:	[Signature]	03/12/13	

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. 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)

17. 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:	_____		

18. Additional remarks:

19. 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 checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____
Mailing Address:	<u>624 E. Comanche</u> <u>Farmington, NM 87401</u>	Project Name: <u>CoP Ute #12 March 2013</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>H. Woods / D. Watson</u>
<input type="checkbox"/> EDD (Type) _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Sample Temperature: <u>5.5</u> °C

Sample Temperature: 90°C

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

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/11/13	1636	Heather M. Woods	Christa Waele	3/11/13	1636
Date:	Time:	Relinquished by:	Received by:	Date	Time
3/11/13	1730	Christa Waele		03/12/13	0953

Remarks: Bill to ConocoPhillips
WO: 9479804
Supervisor: Richard Lopez
User ID: GARRECO
Area: |

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

May 31, 2013

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

RE: COP Ute #12

OrderNo.: 1305949

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/23/2013 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1305949

Date Reported: 5/31/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC- SC-21 lrc

Project: COP Ute #12

Collection Date: 5/22/2013 9:35:00 AM

Lab ID: 1305949-001

Matrix: SOIL

Received Date: 5/23/2013 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME	
Diesel Range Organics (DRO)	22	6.2	10		mg/Kg	1	5/24/2013 3:21:28 PM	7579
Motor Oil Range Organics (MRO)	ND	50	50		mg/Kg	1	5/24/2013 3:21:28 PM	7579
Surr: DNOP	92.3	0	63-147		%REC	1	5/24/2013 3:21:28 PM	7579
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DAM	
Gasoline Range Organics (GRO)	ND	0.91	4.7		mg/Kg	1	5/24/2013 10:07:18 PM	7587
Surr: BFB	95.7	0	80-120		%REC	1	5/24/2013 10:07:18 PM	7587
EPA METHOD 8021B: VOLATILES							Analyst: DAM	
Benzene	ND	0.0029	0.047		mg/Kg	1	5/24/2013 10:07:18 PM	7587
Toluene	ND	0.0030	0.047		mg/Kg	1	5/24/2013 10:07:18 PM	7587
Ethylbenzene	ND	0.0033	0.047		mg/Kg	1	5/24/2013 10:07:18 PM	7587
Xylenes, Total	0.014	0.011	0.094	J	mg/Kg	1	5/24/2013 10:07:18 PM	7587
Surr: 4-Bromofluorobenzene	101	0	80-120		%REC	1	5/24/2013 10:07:18 PM	7587
EPA METHOD 7471: MERCURY							Analyst: IDC	
Mercury	0.036	0.0016	0.033		mg/kg	1	5/29/2013 11:45:42 AM	7635
EPA METHOD 6010B: SOIL METALS							Analyst: ELS	
Arsenic	4.0	1.3	5.0	J	mg/Kg	2	5/29/2013 7:45:22 AM	7618
Barium	200	0.30	0.49		mg/Kg	5	5/29/2013 8:28:20 AM	7618
Cadmium	ND	0.054	0.20		mg/Kg	2	5/29/2013 7:45:22 AM	7618
Chromium	8.5	0.24	0.60		mg/Kg	2	5/29/2013 7:45:22 AM	7618
Copper	11	0.46	0.60		mg/Kg	2	5/29/2013 7:45:22 AM	7618
Lead	7.7	0.44	0.50		mg/Kg	2	5/29/2013 7:45:22 AM	7618
Nickel	9.1	0.33	1.0		mg/Kg	2	5/29/2013 7:45:22 AM	7618
Selenium	ND	2.8	5.0		mg/Kg	2	5/29/2013 7:45:22 AM	7618
Silver	ND	0.071	0.50		mg/Kg	2	5/29/2013 7:45:22 AM	7618
Zinc	47	2.0	5.0		mg/Kg	2	5/29/2013 7:45:22 AM	7618
SAR SOLUBLE CATIONS							Analyst: JLF	
Calcium	190	0.49	1.0		mg/L	1	5/29/2013 12:56:00 PM	7628
Magnesium	64	0.34	1.0		mg/L	1	5/29/2013 12:56:00 PM	7628
Sodium	2100	0.88	1.0		mg/L	1	5/29/2013 12:56:00 PM	7628
Sodium Adsorption Ratio	34	0	0			1	5/29/2013 12:56:00 PM	7628
EPA METHOD 8270C: PAHS							Analyst: JDC	
Naphthalene	ND	0.0043	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Acenaphthene	ND	0.0057	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Fluorene	ND	0.0041	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Anthracene	ND	0.0031	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Fluoranthene	ND	0.0035	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Pyrene	ND	0.0048	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613

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
	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

Analytical Report

Lab Order 1305949

Date Reported: 5/31/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: COP Ute #12

Lab ID: 1305949-001

Matrix: SOIL

Client Sample ID: SC- SC-21 lrc

Collection Date: 5/22/2013 9:35:00 AM

Received Date: 5/23/2013 10:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: JDC	
Benz(a)anthracene	ND	0.0057	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Chrysene	ND	0.0038	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Benzo(b)fluoranthene	0.012	0.0047	0.020	J	mg/Kg	1	5/28/2013 9:13:43 PM	7613
Benzo(k)fluoranthene	0.0083	0.0058	0.020	J	mg/Kg	1	5/28/2013 9:13:43 PM	7613
Benzo(a)pyrene	ND	0.0039	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Dibenz(a,h)anthracene	ND	0.0039	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Indeno(1,2,3-cd)pyrene	ND	0.0078	0.020		mg/Kg	1	5/28/2013 9:13:43 PM	7613
Surr: Benzo(e)pyrene	86.0	0	54.9-125		%REC	1	5/28/2013 9:13:43 PM	7613
Surr: N-hexadecane	84.6	0	54.7-111		%REC	1	5/28/2013 9:13:43 PM	7613
CONDUCTANCE							Analyst: JML	
Specific Conductance	2400	0	1.0		µmhos/c	1	5/30/2013 4:41:00 PM	R10980

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
	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



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

May 30, 2013

Date Received : May 24, 2013
Description :
Sample ID : 1305949-001B SC-1 SC-21 lrc
Collected By :
Collection Date : 05/22/13 09:35

ESC Sample # : L637642-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	10.	mg/kg	3060A/7196A	05/28/13	5
ORP	230		mV	2580 B-2011	05/28/13	1
pH	8.8		su	9045D	05/29/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/30/13 10:11 Printed: 05/30/13 10:12

L637642-01 (CR6) - diluted due to sample color

L637642-01 (PH) - 8.8@21.6c



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L637642

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

May 30, 2013

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Chromium, Hexavalent	< 2	mg/kg		WG663011	05/28/13 13:55

Analyte	Units	Result	Duplicate Duplicate RPD	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	16.0	13.0	18.2	L637431-01	WG663011
Chromium, Hexavalent	mg/kg	5.80	7.30	22.2*	L636947-01	WG663011
ORP	mV	180.	160.	11.8	L637268-01	WG662957
ORP	mV	440.	440.	0	L637431-01	WG662957
pH	su	8.00	7.90	0.757	L637174-18	WG663557
pH	su	7.50	7.50	0.133	L637174-21	WG663557

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Chromium, Hexavalent	mg/kg	146	148	101	80-120	WG663011
ORP	mV	228	223	97.8	95.6-104	WG662957
pH	su	5.79	5.80	100	98.3-101.7	WG663557

Analyte	Units	Result	Ref	% Rec	Limit	RPD	Limit	Batch
Chromium, Hexavalent	mg/kg	140	148	96.0	80-120	5.56	20	WG663011
ORP	mV	221	223	97.0	95.6-104	0.901	20	WG662957
pH	su	5.80	5.80	100	98.3-101.7	0	20	WG663557

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	5.20	0	20	5.20*	75-125	L637164-01	WG663011

Analyte	Units	MSD	Ref	% Rec	Limit	RPD	Limit	Ref Samp	Batch
Chromium, Hexavalent	mg/kg	6.12	5.20	6.12*	75-125	16.3	20	L637164-01	WG663011

Batch number / Run number / Sample number cross reference

WG663011: R2685421: L637642-01
WG662957: R2685740: L637642-01
WG663557: R2687740: L637642-01

* * 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#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	MB-7579	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	7579	RunNo:	10810					
Prep Date:	5/23/2013	Analysis Date:	5/23/2013	SeqNo:	306110	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	63	147			

Sample ID	LCS-7579	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	7579	RunNo:	10810					
Prep Date:	5/23/2013	Analysis Date:	5/23/2013	SeqNo:	306204	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	44	10	50.00	0	87.1	77.1	128			
Surr: DNOP	5.9		5.000		119	63	147			

Sample ID	1305873-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	7560	RunNo:	10862					
Prep Date:	5/22/2013	Analysis Date:	5/24/2013	SeqNo:	307309	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	5.1		4.965		103	63	147			
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Sample ID	1305873-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	7560	RunNo:	10862					
Prep Date:	5/22/2013	Analysis Date:	5/24/2013	SeqNo:	307310	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	5.2		5.030		103	63	147	0	0	
------------	-----	--	-------	--	-----	----	-----	---	---	--

Sample ID	1305918-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	7579	RunNo:	10884					
Prep Date:	5/23/2013	Analysis Date:	5/28/2013	SeqNo:	307884	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	42	20	49.85	0	83.6	61.3	138			
Surr: DNOP	6.6		4.985		132	63	147			

Sample ID	1305918-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	7579	RunNo:	10884					
Prep Date:	5/23/2013	Analysis Date:	5/28/2013	SeqNo:	307885	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	44	20	49.70	0	89.4	61.3	138	6.38	20	
Surr: DNOP	6.5		4.970		130	63	147	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 |
| 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#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	MB-7587	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	7587	RunNo:	10880					
Prep Date:	5/23/2013	Analysis Date:	5/24/2013	SeqNo:	307514	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	960		1000		96.0	80	120			

Sample ID	LCS-7587	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	7587	RunNo:	10880					
Prep Date:	5/23/2013	Analysis Date:	5/24/2013	SeqNo:	307516	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	62.6	136			
Surr: BFB	1000		1000		101	80	120			

Sample ID	1305949-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	7587	RunNo:	10880					
Prep Date:	5/23/2013	Analysis Date:	5/24/2013	SeqNo:	307518	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	34	4.6	23.23	0	148	70	130			S
Surr: BFB	1100		929.4		122	80	120			S

Sample ID	1305949-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	7587	RunNo:	10880					
Prep Date:	5/23/2013	Analysis Date:	5/24/2013	SeqNo:	307519	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.6	23.21	0	129	70	130	14.2	22.1	
Surr: BFB	1100		928.5		117	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 |
| 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#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	MB-7587		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 7587		RunNo: 10880					
Prep Date:	5/23/2013		Analysis Date: 5/24/2013		SeqNo: 307478		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	0.0087	0.050								J
Ethylbenzene	ND	0.050								
Xylenes, Total	0.015	0.10								J
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	LCS-7587		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 7587		RunNo: 10880					
Prep Date:	5/23/2013		Analysis Date: 5/24/2013		SeqNo: 307480		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	110	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	1305949-001AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-1		Batch ID: 7587		RunNo: 10880					
Prep Date:	5/23/2013		Analysis Date: 5/24/2013		SeqNo: 307481		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.046	0.9294	0	125	67.2	113			S
Toluene	1.1	0.046	0.9294	0	123	62.1	116			S
Ethylbenzene	1.2	0.046	0.9294	0	127	67.9	127			
Xylenes, Total	3.5	0.093	2.788	0.01401	126	60.6	134			
Surr: 4-Bromofluorobenzene	0.98		0.9294		105	80	120			

Sample ID	1305949-001AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID:	SC-1		Batch ID: 7587		RunNo: 10880						
Prep Date:	5/23/2013		Analysis Date: 5/24/2013		SeqNo: 307482		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.046	0.9285	0	123	67.2	113	2.14	14.3	S	
Toluene	1.1	0.046	0.9285	0	120	62.1	116	2.57	15.9	S	
Ethylbenzene	1.1	0.046	0.9285	0	123	67.9	127	3.05	14.4		
Xylenes, Total	3.5	0.093	2.786	0.01401	124	60.6	134	2.14	12.6		
Surr: 4-Bromofluorobenzene	0.98		0.9285		105	80	120	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	mb-7613		SampType:	MBLK		TestCode:	EPA Method 8270C: PAHs				
Client ID:	PBS		Batch ID:	7613		RunNo:	10909				
Prep Date:	5/27/2013		Analysis Date:	5/28/2013		SeqNo:	308398		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: Benzo(e)pyrene	0.33		0.3300		99.6	54.9	125				
Surr: N-hexadecane	1.4		1.460		93.7	54.7	111				

Sample ID	lcs-7613		SampType: LCS		TestCode: EPA Method 8270C: PAHs					
Client ID:	LCSS		Batch ID: 7613		RunNo: 10909					
Prep Date:	5/27/2013		Analysis Date: 5/28/2013		SeqNo: 308399		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.31	0.020	0.3300	0	93.8	42.5	118			
Acenaphthene	0.31	0.020	0.3300	0	92.9	47.5	125			
Fluorene	0.31	0.020	0.3300	0	93.4	49.1	120			
Anthracene	0.31	0.020	0.3300	0	94.4	42.9	130			
Fluoranthene	0.30	0.020	0.3300	0	91.5	37	134			
Pyrene	0.31	0.020	0.3300	0	94.4	46.4	126			
Benz(a)anthracene	0.32	0.020	0.3300	0	97.9	50.6	126			
Chrysene	0.30	0.020	0.3300	0	90.3	36.8	123			
Benzo(b)fluoranthene	0.33	0.020	0.3300	0	101	47.2	130			
Benzo(k)fluoranthene	0.29	0.020	0.3300	0	87.0	40	122			
Benzo(a)pyrene	0.29	0.020	0.3300	0	86.5	44	118			
Dibenz(a,h)anthracene	0.34	0.020	0.3300	0	102	53.3	131			
Indeno(1,2,3-cd)pyrene	0.33	0.020	0.3300	0	99.8	52	126			
Surr: Benzo(e)pyrene	0.32		0.3300		95.6	54.9	125			
Surr: N-hexadecane	1.3		1.460		91.7	54.7	111			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	1305572-012Ams	SampType: MS		TestCode: EPA Method 8270C: PAHs						
Client ID:	BatchQC	Batch ID: 7613		RunNo: 10909						
Prep Date:	5/27/2013	Analysis Date: 5/28/2013		SeqNo: 308410			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.27	0.020	0.3314	0	82.2	50.2	114			
Fluorene	0.32	0.020	0.3314	0.06576	76.7	55.3	107			
Anthracene	0.26	0.020	0.3314	0	79.8	54.9	116			
Fluoranthene	0.28	0.020	0.3314	0.01694	79.6	55.2	119			
Pyrene	0.35	0.020	0.3314	0.03122	95.1	60.2	115			
Benz(a)anthracene	0.30	0.020	0.3314	0.006310	88.6	61.9	120			
Chrysene	0.30	0.020	0.3314	0.007307	87.7	42.5	117			
Benzo(b)fluoranthene	0.35	0.020	0.3314	0.007971	102	57.4	124			
Benzo(k)fluoranthene	0.29	0.020	0.3314	0.006642	86.9	52.6	107			
Benzo(a)pyrene	0.26	0.020	0.3314	0	78.5	55.7	106			
Dibenz(a,h)anthracene	0.34	0.020	0.3314	0	102	51.8	130			
Indeno(1,2,3-cd)pyrene	0.32	0.020	0.3314	0	96.3	56.8	120			
Surr: Benzo(e)pyrene	0.34		0.3314		103	54.9	125			
Surr: N-hexadecane	1.4		1.466		92.4	54.7	111			

Sample ID	1305572-012Amsd	SampType:	MSD	TestCode: EPA Method 8270C: PAHs						
Client ID:	BatchQC	Batch ID:	7613	RunNo: 10909						
Prep Date:	5/27/2013	Analysis Date:	5/28/2013	SeqNo: 308411			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.32	0.020	0.3310	0	96.4	50.2	114	15.7	20.5	
Fluorene	0.37	0.020	0.3310	0.06576	92.8	55.3	107	15.2	20	
Anthracene	0.33	0.020	0.3310	0	98.4	54.9	116	20.7	26.6	
Fluoranthene	0.36	0.020	0.3310	0.01694	103	55.2	119	24.2	23.7	R
Pyrene	0.38	0.020	0.3310	0.03122	104	60.2	115	8.38	29.3	
Benz(a)anthracene	0.35	0.020	0.3310	0.006310	104	61.9	120	15.6	25.4	
Chrysene	0.32	0.020	0.3310	0.007307	95.5	42.5	117	8.16	27.6	
Benzo(b)fluoranthene	0.44	0.020	0.3310	0.007971	130	57.4	124	23.1	20	SR
Benzo(k)fluoranthene	0.34	0.020	0.3310	0.006642	102	52.6	107	15.5	31.3	
Benzo(a)pyrene	0.33	0.020	0.3310	0	99.3	55.7	106	23.3	22.1	R
Dibenz(a,h)anthracene	0.42	0.020	0.3310	0	127	51.8	130	21.7	21.2	R
Indeno(1,2,3-cd)pyrene	0.41	0.020	0.3310	0	123	56.8	120	24.5	20.4	SR
Surr: Benzo(e)pyrene	0.40		0.3310		121	54.9	125	0	0	
Surr: N-hexadecane	1.6		1.464		106	54.7	111	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	1305A05-003ADUP	SampType:	DUP	TestCode:	CONDUCTANCE					
Client ID:	BatchQC	Batch ID:	R10980	RunNo:	10980					
Prep Date:		Analysis Date:	5/30/2013	SeqNo:	310454	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Conductance	5000	1.0						2.94	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 |
| 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#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	MB-7635	SampType	MBLK	TestCode	EPA Method 7471: Mercury					
Client ID	PBS	Batch ID	7635	RunNo	10928					
Prep Date	5/28/2013	Analysis Date	5/29/2013	SeqNo	309005	Units	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-7635	SampType	LCS	TestCode	EPA Method 7471: Mercury					
Client ID	LCSS	Batch ID	7635	RunNo	10928					
Prep Date	5/28/2013	Analysis Date	5/29/2013	SeqNo	309006	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	104	80	120			

Sample ID	1305837-011AMS	SampType	ms	TestCode	EPA Method 7471: Mercury					
Client ID	BatchQC	Batch ID	7635	RunNo	10928					
Prep Date	5/28/2013	Analysis Date	5/29/2013	SeqNo	309020	Units	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1658	0.002587	100	75	125			

Sample ID	1305837-011AMSD	SampType	msd	TestCode	EPA Method 7471: Mercury					
Client ID	BatchQC	Batch ID	7635	RunNo	10928					
Prep Date	5/28/2013	Analysis Date	5/29/2013	SeqNo	309021	Units	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1649	0.002587	102	75	125	1.34	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 |
| 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#: 1305949

31-May-13

Client: Animas Environmental

Project: COP Ute #12

Sample ID	LCS-7618		SampType: LCS		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	LCSS		Batch ID: 7618		RunNo: 10919					
Prep Date:	5/28/2013		Analysis Date: 5/29/2013		SeqNo: 308671		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	25	2.5	25.00	0	99.7	80	120			
Barium	24	0.10	25.00	0	95.2	80	120			
Cadmium	23	0.10	25.00	0	93.8	80	120			
Chromium	24	0.30	25.00	0	95.6	80	120			
Copper	25	0.30	25.00	0	98.6	80	120			
Lead	23	0.25	25.00	0	93.9	80	120			
Nickel	23	0.50	25.00	0	91.2	80	120			
Selenium	22	2.5	25.00	0	87.3	80	120			
Silver	5.0	0.25	5.000	0	99.2	80	120			
Zinc	23	2.5	25.00	0	93.5	80	120			

Sample ID	MB-7618		SampType: MBLK		TestCode: EPA Method 6010B: Soil Metals					
Client ID:	PBS		Batch ID: 7618		RunNo: 10919					
Prep Date:	5/28/2013		Analysis Date: 5/29/2013		SeqNo: 308678		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	ND	2.5								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4101
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1305949

RcptNo: 1

Received by/date:	<i>[Signature]</i>	05/23/13
Logged By:	Lindsay Mangin	5/23/2013 10:00:00 AM
Completed By:	Lindsay Mangin	5/23/2013 10:38:57 AM
Reviewed By:	<i>[Signature]</i>	05/23/2013

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Client: Animas Environmental
Services

Mailing Address: 624 E. Comanche

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Sample Temperature:

Sample Temperature:

[illegible][illegible]

Date:	Time:	Relinquished by:	Received by:	Date:	Time
5/23/13	6:20	Kelley Chandon	Christ Wrote	5/23/13	6:20
Date:	Time:	Relinquished by:	Received by:	Date:	Time
5/23/13	1:45	Christine Wheeler	Christ Wrote	05/23/13	10:00

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

Area: 1

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.