

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: EPNG D Com 5A	Facility Type: Gas Well

Surface Owner State	Mineral Owner State (E-1193-8)	API No. 30-045-21979
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LOCATION OF RELEASE

Unit Letter D	Section 36	Township 30N	Range 8W	Feet from the 800	North/South Line North	Feet from the 1080	East/West Line West	County San Juan
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Latitude **36.77356** Longitude **107.63181**

NATURE OF RELEASE

Type of Release Produced Fluids	Volume of Release 360 yds	Volume Recovered
Source of Release Below Grade Tank	Date and Hour of Occurrence 5/10/2012	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

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

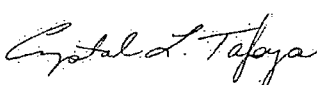
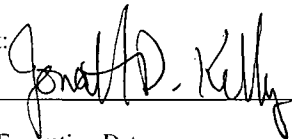
**RCVD NOV 8 '12
OIL CONS. DIV.
DIST. 3**

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Re-set Activites

Describe Area Affected and Cleanup Action Taken.*

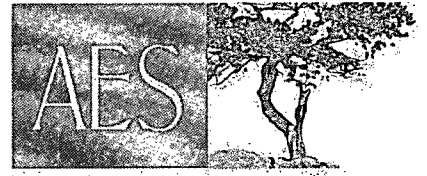
Historical hydrocarbon impacted soil was found during the BGT re-set for the subject well. The excavation was 41'X34'X12' and 360 yds of soil was transported to IEI landfarm and clean soil was used from Aztec Machine and placed in the excavation site. The soil sampling report is attached for review.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya		Approved by Environmental Specialist: 	
Title: Field Environmental Specialist		Approval Date: 11/27/2012 Expiration Date:	
E-mail Address: crystal.tafoya@conocophillips.com		Conditions of Approval:	
Date: 11/07/2012 Phone: (505) 326-9837		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

nJK 1233253562



Animas Environmental Services, LLC

www.animasenvironmental.com

October 19, 2012

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

624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

**RE: Initial Release Assessment and Final Excavation Report
EPNG COM D #5A
San Juan County, New Mexico**

Dear Ms. Tafoya:

On May 10 and June 13, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the EPNG COM D #5A, located in San Juan County, New Mexico. The discovery of hydrocarbon impacted soil occurred during a below grade tank reset. The final excavation was completed by contractors prior to AES' arrival at the location on June 13, 2012.

1.0 Site Information

1.1 Location

Location - NW¼ NW¼, Section 36, T30N, R8W, San Juan County, New Mexico
Well Head Latitude/Longitude - N36.77377 and W107.63233, respectively
Release Location Latitude/Longitude – N36.77396 and W107.63192, respectively
Land Jurisdiction – State of New Mexico
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report form dated May 1991 for the EPNG COM D #5A reported depth to groundwater at 90 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 ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was between 50 and 99 feet below ground surface (bgs). The Navajo Indian Irrigation Project Main Canal is located approximately 480 feet to the east of the location. The wash in Gobernador Canyon is located approximately 680 feet to the west and south of the location. Based on this information, the location was assessed a ranking score of 20 per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

1.3 Initial Assessment

AES was initially contacted by Shelly Cook-Cowden of CoP on May 10, 2012, and on the same day, Tom Long and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 21 soil samples from six test holes (TH-1 through TH-6) in the vicinity of the below grade tank. Based on field screening and laboratory results, AES recommended excavation of the release area. Sample locations and results are shown on Figure 3.

1.4 Final Confirmation Sampling

On June 13, 2012, AES returned to the location to collect confirmation soil samples of the excavation. Sample field screening included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The area of the final excavation was approximately 41 feet by 34 feet by 12 feet in depth. Sample locations, results, and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 21 soil samples and 5 composite soil samples were collected during the assessment and final confirmation sampling. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Ten of the soil samples collected during the initial assessment from TH-1 through TH-6 and two composite soil samples (SC-1 and SC-2) collected during the confirmation sampling 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 12 samples from TH-1 through TH-6, and SC-1, and SC-2 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 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B/8260B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

Note that soils samples TH-3 through TH-6 and SC-2 were analyzed only for TPH per USEPA 8015B.

2.3 Field Screening and Laboratory Analytical Results

On May 10, 2012, initial assessment field screening readings for VOCs via OVM ranged from 1.6 ppm in TH-5 up to 3,517 ppm in TH-2. Field TPH concentrations ranged from 102 mg/kg in TH-6 up to 1,190 mg/kg in TH-1.

On June 13, 2012, final excavation field screening readings for VOCs via OVM ranged from 19.3 ppm in SC-4 up to 160 ppm in SC-1. Field TPH concentrations ranged from 27.5 mg/kg in SC-4 up to 268 mg/kg in SC-1. Results are included below in Table 1 and on Figures 3 and 4. AES field screening reports are attached.

Table 1. Soil Field Screening VOC and TPH Results
EPNG COM D #5A Release Assessment and Final Excavation
April and May 2012

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
NMOCD Action Level*			100	100
TH-1	5/10/12	4	105	1,190
		7	3,133	NA
		10	2,342	419
		12	245	131
TH-2	5/10/12	4	4.8	123
		6	829	NA
		10	3,517	379
		12	745	267
TH-3	5/10/12	4	6.8	110
TH-4	5/10/12	4	4.9	105
		7	4.2	NA
		10	4.6	NA
		12	3.6	179
TH-5	5/10/12	4	1.9	110
		7	2.3	NA
		10	2.4	NA
		12	1.6	107
TH-6	5/10/12	4	8.9	118
		7	1.8	NA
		10	2.9	NA
		12	70.6	102
SC-1	6/13/12	1 to 12.5	160	268
SC-2	6/13/12	1 to 12.5	25.0	146
SC-3	6/13/12	1 to 12.5	1.0	43.4
SC-4	6/13/12	1 to 12.5	19.3	27.5
SC-5	6/13/12	12.5	24.4	48.7

NA – Not Analyzed

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

Laboratory analyses for TH-1 through TH-6 were used to confirm field screening results from the initial assessment. Benzene concentrations were reported below the laboratory detection limits in all samples analyzed from TH-1 and TH-2. Total BTEX concentrations ranged from 0.49 mg/kg in TH-2 up to 1.5 mg/kg in TH-1. TPH concentrations as GRO/DRO were reported below the laboratory detection limit of 15 mg/kg up to 297 mg/kg in TH-1.

Laboratory analyses for SC-1 and SC-2 were used to confirm field screening results from the final excavation sampling. Benzene and total BTEX concentrations were below the laboratory detection limits in SC-1 with less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations as GRO/DRO were reported at 44.3 mg/kg in SC-1 and less than 15 mg/kg in SC-2. Results are presented in Table 2 and on Figure 3. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, BTEX and TPH
EPNG COM D #5A Release Assessment and Final Excavation
May and June 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>
NMOCD Action Level*			10	50	100	
TH-1	5/10/12	4	<0.25	<1.25	87	210
		10	<0.25	1.5	35	260
TH-2	5/10/12	10	<0.10	0.49	51	89
TH-3	5/10/12	4	NA	NA	<5.0	<10
TH-4	5/10/12	4	NA	NA	<5.0	<10
		12	NA	NA	<5.0	<10
TH-5	5/10/12	4	NA	NA	<5.0	<10
		12	NA	NA	<5.0	<10
TH-6	5/10/12	4	NA	NA	<5.0	<10
		12	NA	NA	<5.0	<10
SC-1	6/13/12	1 to 12.5	<0.050	<0.25	9.3	35
SC-2	6/13/12	1 to 12.5	NA	NA	<5.0	<10

NA=Not Analyzed

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On May 10, 2012, AES conducted an initial assessment of an existing excavation associated with a historical release encountered during a below grade tank reset at EPNG COM D #5A, located in San Juan County, New Mexico.

Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20. Field screening showed concentrations above the NMOCD action levels of 100 ppm VOCs and 100 mg/kg TPH in samples collected from TH-1 through TH-6. The highest VOC concentration was 3,517 ppm in TH-2, and the highest TPH concentration was reported in TH-1 with 1,190 mg/kg.

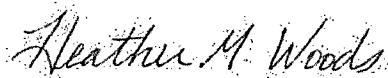
Laboratory analyses collected on May 10, 2012, showed that benzene and total BTEX concentrations were below the applicable NMOCD thresholds in TH-1 through TH-6. However, TPH concentrations as GRO/DRO exceeded the NMOCD threshold of 100 mg/kg in TH-1 with 297 mg/kg and 295 mg/kg and in TH-2 with 140 mg/kg. Based on field screening and laboratory results, an area of excavation was recommended for the location.

On June 13, 2012, a final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels for all of the final four walls and the base of the excavation, except for SC-1 (160 ppm VOCs and 268 mg/kg TPH) and SC-2 (146 mg/kg TPH). However, laboratory analyses for SC-1 and SC-2 showed benzene, total BTEX, and TPH concentrations (as GRO/DRO) to be below applicable NMOCD action levels.

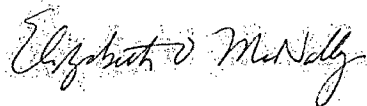
Based on the final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the EPNG COM D #5A, VOCs, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels. No further work is recommended.

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

Sincerely,



Heather M. Woods
Staff Geologist

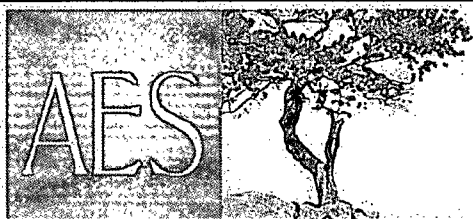


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, May 2012
- Figure 3. Initial Assessment Soil Sample Locations and Results, May 2012
- Figure 4. Final Excavation Soil Sample Locations and Results, June 2012
- AES Field Screening Report 051012
- AES Field Screening Report 061312
- Hall Laboratory Analytical Report 1205679
- Hall Laboratory Analytical Report 1205556
- Hall Laboratory Analytical Report 1206576

R:\Animas 2000\2012 Projects\Conoco Phillips\EPNG COM D# 5A\EPNG COM D #5A Release and Final Excavation Report 101512.docx



Animas Environmental Services, LLC

DRAWN BY:

C. Lameman

DATE DRAWN:

May 10, 2012

REVISIONS BY:

C. Lameman

DATE REVISED:

May 10, 2012

CHECKED BY:

D. Watson

DATE CHECKED:

October 15, 2012

APPROVED BY:

E. McNally

DATE APPROVED:

October 15, 2012

FIGURE 2

AERIAL SITE MAP MAY 2012

ConocoPhillips
EPNG COM D #5A
SAN JUAN COUNTY, NEW MEXICO
NW¼ NW¼, SECTION 36, T30N, R8W
N36.77377, W107.63233

FIGURE 3

**INITIAL SAMPLE LOCATIONS
AND RESULTS, MAY 2012**
ConocoPhillips
EPNG COM D #5A
SAN JUAN COUNTY, NEW MEXICO
NW¼, NW¼, SECTION 36, T30N, R8W
N36.77377, W107.63233

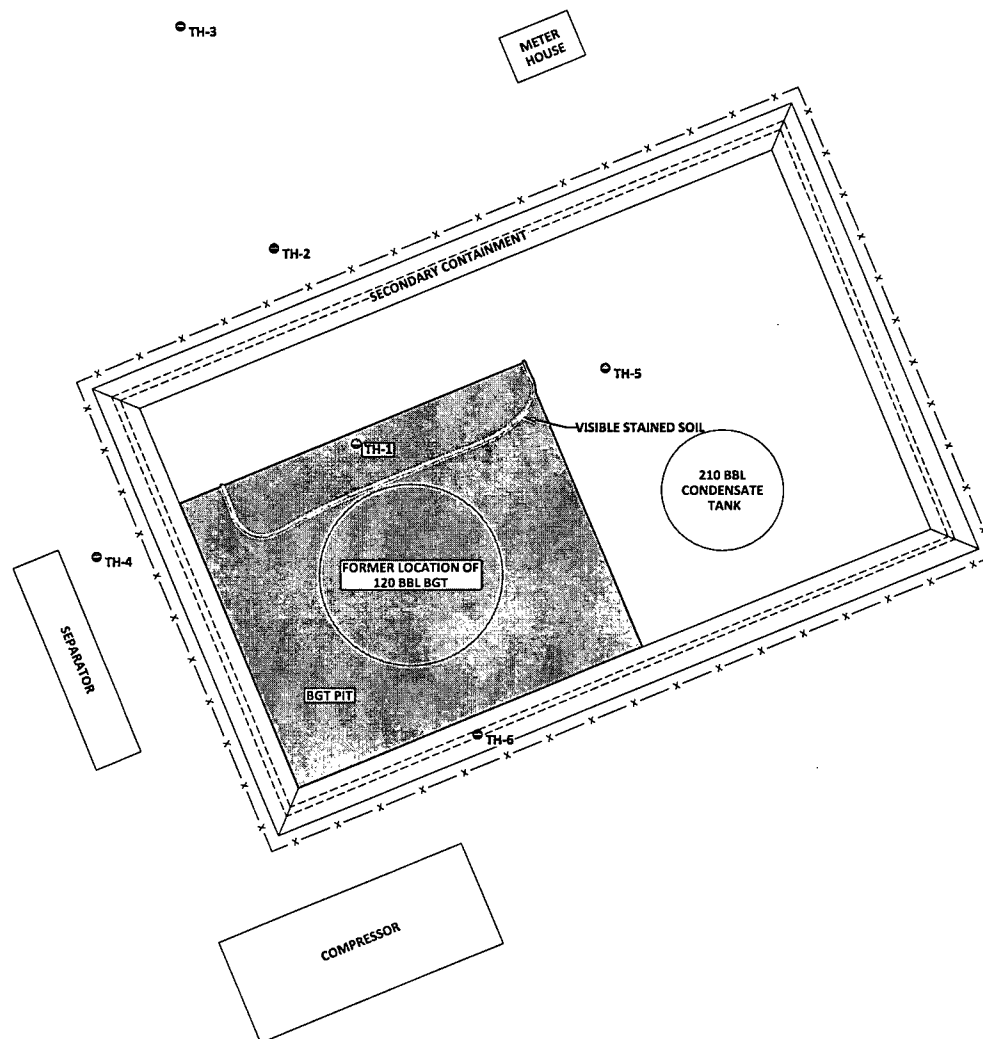
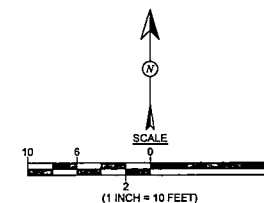


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 10, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 16, 2012
CHECKED BY: D. Watson	DATE CHECKED: October 16, 2012
APPROVED BY: E. McNally	DATE APPROVED: October 16, 2012

LEGEND

● SAMPLE LOCATIONS
— x — FENCE



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
TH-1	5/10/12	4	105	1,190
		7	3,133	NA
		10	2,342	419
		12	245	131
TH-2	5/10/12	4	4.8	123
		6	829	NA
		10	3,517	379
		12	745	267
TH-3	5/10/12	4	6.8	110
TH-4	5/10/12	4	4.9	105
		7	4.2	NA
		10	4.6	NA
		12	3.6	179
TH-5	5/10/12	4	1.9	110
		7	2.3	NA
		10	2.4	NA
		12	1.6	107
TH-6	5/10/12	4	8.9	118
		7	1.8	NA
		10	2.9	NA
		12	70.6	102

NA - NOT ANALYZED

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
TH-1	5/10/12	4	<0.25	<1.25	87	210
		10	<0.25	1.5	35	260
TH-2	5/10/12	10	<0.10	0.49	51	89
TH-3	5/10/12	4	NA	NA	<5.0	<10
		12	NA	NA	<5.0	<10
TH-4	5/10/12	4	NA	NA	<5.0	<10
		12	NA	NA	<5.0	<10
TH-5	5/10/12	4	NA	NA	<5.0	<10
		12	NA	NA	<5.0	<10
TH-6	5/10/12	4	NA	NA	<5.0	<10
		12	NA	NA	<5.0	<10

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND/OR 8015B.
NA - NOT ANALYZED

FIGURE 4

**FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
JUNE 2012**
ConocoPhillips
EPNG COM D #5A
SAN JUAN COUNTY, NEW MEXICO
NW¼ NW¼, SECTION 36, T30N, R8W
N36.77377, W107.63233

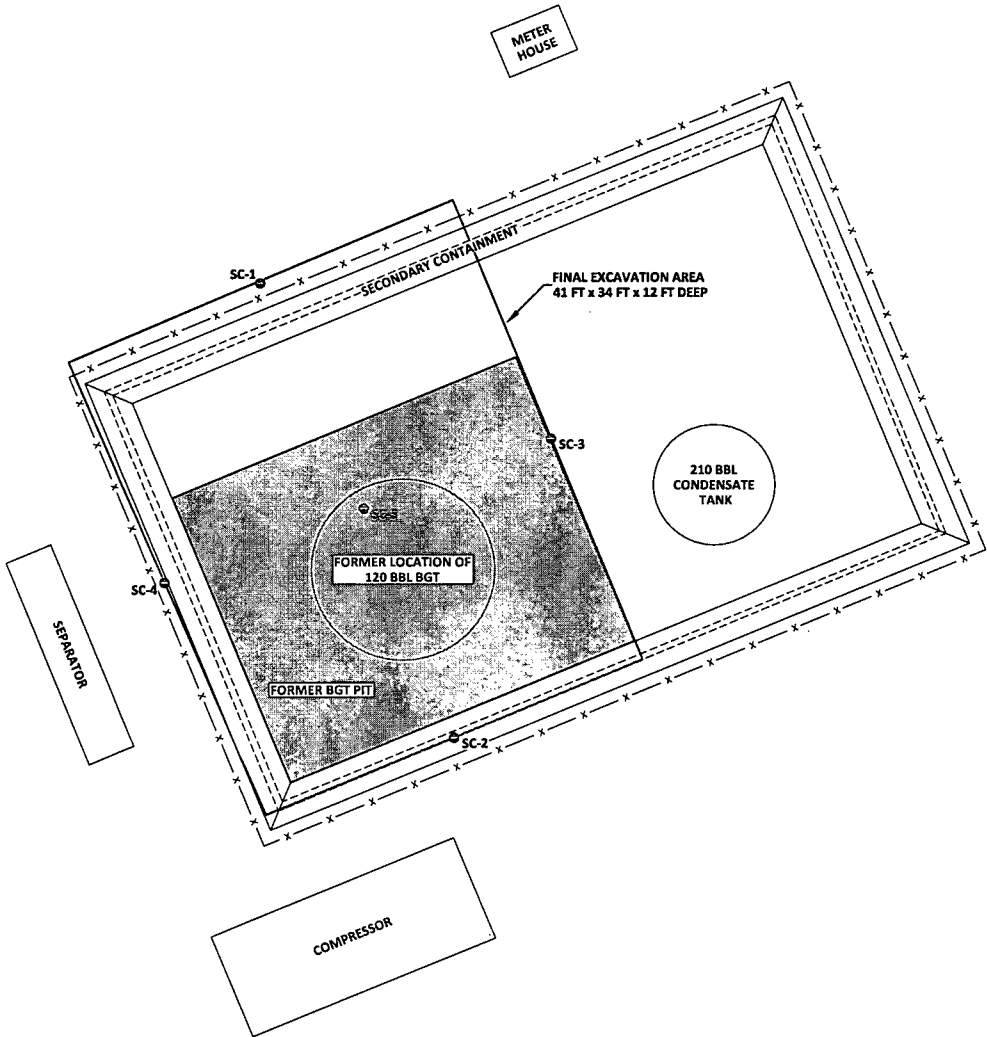
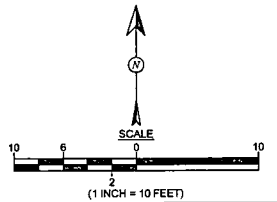


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: October 16, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 16, 2012
CHECKED BY: D. Watson	DATE CHECKED: October 16, 2012
APPROVED BY: E. McNally	DATE APPROVED: October 16, 2012

LEGEND

- SAMPLE LOCATIONS
- x — FENCE



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	6/13/12	1 to 12	160	268
SC-2	6/13/12	1 to 12	25.0	146
SC-3	6/13/12	1 to 12	1.0	43.4
SC-4	6/13/12	1 to 12	19.3	27.5
SC-5	6/13/12	12	24.4	48.7
ALL SAMPLES WERE 5-POINT COMPOSITE SAMPLES NA - NOT ANALYZED				

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
SC-1	6/13/12	1 to 12	<0.050	<0.25	9.3	35
SC-2	6/13/12	1 to 12	NA	NA	<5.0	<10
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8260B AND/OR 8015B. NA - NOT ANALYZED						

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: EPNG COM D #5A

Date: 5/10/2012

Matrix: Soil

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

Durango, Colorado
970-403-3274

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1@ 4'	5/10/2012	12:43	105	10:28	1190	40.0	1	DAW
TH-1@ 7'	5/10/2012	12:44	3,133	Not Analyzed for TPH				
TH-1@ 10'	5/10/2012	12:45	2,342	14:36	419	40.0	1	DAW
TH-1@ 12'	5/10/2012	13:08	245	10:31	131	40.0	1	DAW
TH-2@ 4'	5/10/2012	13:28	4.8	10:33	123	40.0	1	DAW
TH-2@ 6'	5/10/2012	13:29	829	Not Analyzed for TPH				
TH-2@ 10'	5/10/2012	13:30	3517	14:38	379	40.0	1	DAW
TH-2@ 12'	5/10/2012	13:31	745	10:35	267	40.0	1	DAW
TH-3@ 4'	5/10/2012	13:47	6.8	10:37	110	40.0	1	DAW
TH-4@ 4'	5/10/2012	13:50	4.9	10:39	105	40.0	1	DAW
TH-4@ 7'	5/10/2012	13:52	4.2	Not Analyzed for TPH				
TH-4@ 10'	5/10/2012	13:53	4.6	Not Analyzed for TPH				
TH-4@ 12'	5/10/2012	13:54	3.6	10:40	179	40.0	1	DAW

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-5@ 4'	5/10/2012	14:08	1.9	10:43	110	40.0	1	DAW
TH-5@ 7'	5/10/2012	14:09	2.3	Not Analyzed for TPH				
TH-5@ 10'	5/10/2012	14:10	2.4	Not Analyzed for TPH				
TH-5@ 12'	5/10/2012	14:11	1.6	10:44	107	40.0	1	DAW
TH-6@ 4'	5/10/2012	14:25	8.9	10:46	118	40.0	1	DAW
TH-6@ 7'	5/10/2012	14:26	1.8	Not Analyzed for TPH				
TH-6@ 10'	5/10/2012	14:27	2.9	Not Analyzed for TPH				
TH-6@ 12'	5/10/2012	14:28	71	10:48	102	40.0	1	DAW

Total Petroleum Hydrocarbons - USEPA 418.1

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

*Field TPH analyzed on May 11,2012

Analyst:

Debrah Wata

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: EPNG COM D #5A

Date: 6/13/2012

Matrix: Soil

624 E. Comanche

Farmington, NM 87401

505-564-2281

Durango, Colorado

970-403-3274

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/13/2012	14:50	160	15:26	268	20.0	1	DAW
SC-2	6/13/2012	14:48	25.0	15:31	146	20.0	1	DAW
SC-3	5/10/2012	15:54	1.0	16:03	43.4	20.0	1	DAW
SC-4	5/10/2012	14:42	19.3	15:36	27.5	20.0	1	DAW
SC-5	5/10/2012	14:39	24.4	15:38	48.7	20.0	1	DAW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL

Practical Quantitation Limit

ND

Not Detected at the Reporting Limit

DF

Dilution Factor

NA

Not Analyzed

Analyst:

Deborah Watten



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

May 17, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: COP EPNG COM D # 5A

OrderNo.: 1205679

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/16/2012 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.

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.

Analytical Report

Lab Order 1205679

Date Reported: 5/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-3 @ 4ft

Project: COP EPNG COM D # 5A

Collection Date: 5/10/2012 1:47:00 PM

Lab ID: 1205679-001

Matrix: MEOH (SOIL)

Received Date: 5/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2012 11:00:19 AM
Surr: DNOP	92.5	82.1-121		%REC	1	5/16/2012 11:00:19 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2012 11:17:46 AM
Surr: BFB	102	69.7-121		%REC	1	5/16/2012 11:17:46 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205679

Date Reported: 5/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-4 @ 4ft

Project: COP EPNG COM D # 5A

Collection Date: 5/10/2012 1:50:00 PM

Lab ID: 1205679-002

Matrix: MEOH (SOIL)

Received Date: 5/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2012 11:22:21 AM
Surr: DNOP	97.3	82.1-121		%REC	1	5/16/2012 11:22:21 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2012 11:46:33 AM
Surr: BFB	104	69.7-121		%REC	1	5/16/2012 11:46:33 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1205679**

Date Reported: 5/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-4 @ 12ft

Project: COP EPNG COM D # 5A

Collection Date: 5/10/2012 1:54:00 PM

Lab ID: 1205679-003

Matrix: MEOH (SOIL)

Received Date: 5/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2012 11:44:03 AM
Surr: DNOP	96.0	82.1-121		%REC	1	5/16/2012 11:44:03 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2012 12:15:17 PM
Surr: BFB	104	69.7-121		%REC	1	5/16/2012 12:15:17 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205679

Date Reported: 5/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-5 @ 4ft

Project: COP EPNG COM D # 5A

Collection Date: 5/10/2012 2:08:00 PM

Lab ID: 1205679-004

Matrix: MEOH (SOIL)

Received Date: 5/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2012 12:05:36 PM
Surr: DNOP	97.2	82.1-121		%REC	1	5/16/2012 12:05:36 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2012 12:44:01 PM
Surr: BFB	104	69.7-121		%REC	1	5/16/2012 12:44:01 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205679

Date Reported: 5/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-5 @ 12ft

Project: COP EPNG COM D # 5A

Collection Date: 5/10/2012 2:11:00 PM

Lab ID: 1205679-005

Matrix: MEOH (SOIL)

Received Date: 5/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2012 11:06:59 AM
Surr: DNOP	93.4	82.1-121		%REC	1	5/16/2012 11:06:59 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2012 1:12:45 PM
Surr: BFB	104	69.7-121		%REC	1	5/16/2012 1:12:45 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205679

Date Reported: 5/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-6 @ 4ft

Project: COP EPNG COM D # 5A

Collection Date: 5/10/2012 2:25:00 PM

Lab ID: 1205679-006

Matrix: MEOH (SOIL)

Received Date: 5/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2012 11:32:02 AM
Surr: DNOP	94.3	82.1-121		%REC	1	5/16/2012 11:32:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2012 1:41:37 PM
Surr: BFB	103	69.7-121		%REC	1	5/16/2012 1:41:37 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205679

Date Reported: 5/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-6 @ 12ft

Project: COP EPNG COM D # 5A

Collection Date: 5/10/2012 2:28:00 PM

Lab ID: 1205679-007

Matrix: MEOH (SOIL)

Received Date: 5/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2012 11:57:08 AM
Surr: DNOP	93.7	82.1-121		%REC	1	5/16/2012 11:57:08 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2012 2:10:25 PM
Surr: BFB	107	69.7-121		%REC	1	5/16/2012 2:10:25 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205679

17-May-12

Client: Animas Environmental Services

Project: COP EPNG COM D # 5A

Sample ID	MB-1966		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	PBS		Batch ID:	1966		RunNo:	2804				
Prep Date:	5/16/2012		Analysis Date:	5/16/2012		SeqNo:	77890		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	9.9		10.00		99.0	82.1	121				

Sample ID	LCS-1966		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 1966		RunNo: 2804					
Prep Date:	5/16/2012		Analysis Date: 5/16/2012		SeqNo: 77891		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	10	50.00	0	68.5	52.6	130			
Surr: DNOP	4.2		5.000		83.9	82.1	121			

Sample ID	1205623-013AMS		SampType: MS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC		Batch ID: 1966		RunNo: 2831					
Prep Date:	5/16/2012		Analysis Date: 5/17/2012		SeqNo: 78855		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	51.28	4.948	73.7	57.2	146			
Surr: DNOP	4.8		5.128		92.8	82.1	121			

Sample ID	1205623-013AMSD		SampType: MSD		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC		Batch ID: 1966		RunNo: 2831					
Prep Date:	5/16/2012		Analysis Date: 5/17/2012		SeqNo: 78856		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	49.80	4.948	80.7	57.2	146	5.42	26.7	
Surr: DNOP	4.6		4.980		92.6	82.1	121	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205679

17-May-12

Client: Animas Environmental Services

Project: COP EPNG COM D # 5A

Sample ID	MB-1952	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1952	RunNo:	2816					
Prep Date:	5/15/2012	Analysis Date:	5/16/2012	SeqNo:	78966	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	1,000		1,000		105	69.7	121			

Sample ID	LCS-1952	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1952	RunNo:	2816					
Prep Date:	5/15/2012	Analysis Date:	5/16/2012	SeqNo:	78967	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	98.5	133			
Surr: BFB	1,100		1,000		112	69.7	121			

Sample ID	1205516-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	1952	RunNo:	2816					
Prep Date:	5/15/2012	Analysis Date:	5/16/2012	SeqNo:	78969	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	31	4.8	23.76	0	132	85.4	147			
Surr: BFB	1,100		950.6		112	69.7	121			

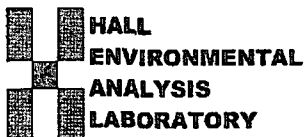
Sample ID	1205516-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	1952	RunNo:	2816					
Prep Date:	5/15/2012	Analysis Date:	5/16/2012	SeqNo:	78970	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	31	4.7	23.67	0	133	85.4	147	0.317	19.2	
Surr: BFB	1,100		947.0		113	69.7	121	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
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R RPD outside accepted recovery limits

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



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: 1205679

Received by/date:

Logged By: Lindsay Mangin

5/16/2012 10:00:00 AM

Completed By: Lindsay Mangin

5/16/2012 10:17:49 AM

Reviewed By:

KMS 5/16/12

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 # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No (<2 or >12 unless noted)
15. Is it clear what analyses were requested? Yes ☒ No Adjusted?
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Arinos Env. Services

Mailing Address: 624 E. Conanche

Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush SAME DAY

Project Name: COP

EDNG com D#5A

Project #:

Project Manager:

Ross Kenner

Sampler: Thomas Long

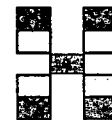
Office: ☒ Yes ☐ No

Sample Temperature: 11.0

Container Type and #

Preservative Type

HEAL No. 1205679



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTE	BTEX + MTE	TPH Method	TPH (Method	EDB (Method	8310 (PNA c	RCRA 8 Met	Anions (F, Cl	8081 Pestic	8260B (VOA	8270 (Semi-			Air Bubbles
5-10-12	1347	Soil	TH-3 e 4ft	4oz Jar	ICE	-001			X											
	1350		TH-4 e 4ft			-002			Y											
	1354		TH-4 e 12ft			-003			Y											
	1408		TH-5 e 4ft			-004			Y											
	1411		TH-5 e 12ft			-005			Y											
	1425		TH-6 e 4ft			-006			Y											
✓	1428		TH-6 e 12ft	✓	✓	-007			Y											

Date: 5-15-12 Time: 1633 Relinquished by: Thomas Long

Received by: Christine Walker Date: 5/15/12 Time: 1633

Remarks: Bill to COP

Date: 5/15/12 Time: 1721 Relinquished by: Christine Walker

Received by: Christine Walker Date: 5/15/12 Time: 1721

Supervisor Jim Pearce ordered by: Shelly Cook-co



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

May 15, 2012

Ross Kennemer

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: COP EPNG COM D #5A

OrderNo.: 1205556

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/12/2012 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.

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.

Analytical Report

Lab Order 1205556

Date Reported: 5/15/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH1 @ 4'

Project: COP EPNG COM D #5A

Collection Date: 5/10/2012 12:43:00 PM

Lab ID: 1205556-001

Matrix: SOIL

Received Date: 5/12/2012 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	210	98		mg/Kg	10	5/14/2012 9:50:31 AM
Surr: DNOP	0	77.4-131	S	%REC	10	5/14/2012 9:50:31 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	87	25		mg/Kg	5	5/14/2012 4:19:57 PM
Surr: BFB	367	69.7-121	S	%REC	5	5/14/2012 4:19:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	5/14/2012 4:19:57 PM
Toluene	ND	0.25		mg/Kg	5	5/14/2012 4:19:57 PM
Ethylbenzene	ND	0.25		mg/Kg	5	5/14/2012 4:19:57 PM
Xylenes, Total	ND	0.50		mg/Kg	5	5/14/2012 4:19:57 PM
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	5	5/14/2012 4:19:57 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205556

Date Reported: 5/15/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-1 @ 10'

Project: COP EPNG COM D #5A

Collection Date: 5/10/2012 12:45:00 PM

Lab ID: 1205556-002

Matrix: SOIL

Received Date: 5/12/2012 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	260	10		mg/Kg	1	5/14/2012 10:33:38 AM
Surr: DNOP	127	77.4-131		%REC	1	5/14/2012 10:33:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	35	25		mg/Kg	5	5/14/2012 4:48:43 PM
Surr: BFB	168	69.7-121	S	%REC	5	5/14/2012 4:48:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	5/14/2012 4:48:43 PM
Toluene	ND	0.25		mg/Kg	5	5/14/2012 4:48:43 PM
Ethylbenzene	ND	0.25		mg/Kg	5	5/14/2012 4:48:43 PM
Xylenes, Total	1.5	0.50		mg/Kg	5	5/14/2012 4:48:43 PM
Surr: 4-Bromofluorobenzene	94.5	80-120		%REC	5	5/14/2012 4:48:43 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1205556

Date Reported: 5/15/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-2 @ 10'

Project: COP EPNG COM D #5A

Collection Date: 5/10/2012 1:30:00 PM

Lab ID: 1205556-003

Matrix: SOIL

Received Date: 5/12/2012 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	89	10		mg/Kg	1	5/14/2012 9:01:51 AM
Surr: DNOP	108	77.4-131		%REC	1	5/14/2012 9:01:51 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	51	10		mg/Kg	2	5/14/2012 5:17:23 PM
Surr: BFB	404	69.7-121	S	%REC	2	5/14/2012 5:17:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.10		mg/Kg	2	5/14/2012 5:17:23 PM
Toluene	ND	0.10		mg/Kg	2	5/14/2012 5:17:23 PM
Ethylbenzene	0.15	0.10		mg/Kg	2	5/14/2012 5:17:23 PM
Xylenes, Total	0.34	0.20		mg/Kg	2	5/14/2012 5:17:23 PM
Surr: 4-Bromofluorobenzene	104	80-120		%REC	2	5/14/2012 5:17:23 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205556

15-May-12

Client: Animas Environmental Services

Project: COP EPNG COM D #5A

Sample ID	MB-1919	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	1919	RunNo:	2729					
Prep Date:	5/14/2012	Analysis Date:	5/14/2012	SeqNo:	75765	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	9.6		10.00		96.2	77.4	131			

Sample ID	LCS-1919	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	1919	RunNo:	2729					
Prep Date:	5/14/2012	Analysis Date:	5/14/2012	SeqNo:	75979	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.5	62.7	139			
Surr: DNOP	4.4		5.000		87.7	77.4	131			

Sample ID	MB-1913	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	1913	RunNo:	2729					
Prep Date:	5/13/2012	Analysis Date:	5/14/2012	SeqNo:	76201	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.3	82.1	121			

Sample ID	LCS-1913	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	1913	RunNo:	2729					
Prep Date:	5/13/2012	Analysis Date:	5/14/2012	SeqNo:	76202	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		89.0	82.1	121			

Sample ID	1205505-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	1913	RunNo:	2729					
Prep Date:	5/13/2012	Analysis Date:	5/14/2012	SeqNo:	76208	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.139		105	82.1	121			

Sample ID	1205505-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	1913	RunNo:	2729					
Prep Date:	5/13/2012	Analysis Date:	5/14/2012	SeqNo:	76283	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		4.960		103	82.1	121	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205556

15-May-12

Client: Animas Environmental Services

Project: COP EPNG COM D #5A

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77019	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	1,000		1,000		102	69.7	121			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77020	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	98.5	133			
Surr: BFB	1,100		1,000		110	69.7	121			

Sample ID	1205556-001A MS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	TH1 @ 4'	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77022	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	190	25	102.1	87.34	104	85.4	147			
Surr: BFB	16,000		4,085		391	69.7	121			S

Sample ID	1205556-001A MSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	TH1 @ 4'	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77023	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	190	25	102.1	87.34	101	85.4	147	1.96	19.2	
Surr: BFB	16,000		4,085		393	69.7	121	0	0	S

Sample ID	MB-1908	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1908	RunNo:	2746					
Prep Date:	5/11/2012	Analysis Date:	5/14/2012	SeqNo:	77029	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID	LCS-1908	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1908	RunNo:	2746					
Prep Date:	5/11/2012	Analysis Date:	5/14/2012	SeqNo:	77030	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,100		1,000		110	69.7	121			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205556

15-May-12

Client: Animas Environmental Services

Project: COP EPNG COM D #5A

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77040	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77041	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.050	1.000	0	84.8	83.3	107			
Toluene	0.87	0.050	1.000	0	86.8	74.3	115			
Ethylbenzene	0.83	0.050	1.000	0	82.9	80.9	122			
Xylenes, Total	2.5	0.10	3.000	0	83.6	85.2	123			S
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	80	120			

Sample ID	1205557-001A MS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77042	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.050	0.7086	0	86.6	67.2	113			
Toluene	0.64	0.050	0.7086	0	90.3	62.1	116			
Ethylbenzene	0.62	0.050	0.7086	0	88.1	67.9	127			
Xylenes, Total	1.9	0.10	2.126	0	88.3	60.6	134			
Surr: 4-Bromofluorobenzene	0.68		0.7086		95.3	80	120			

Sample ID	1205557-001A MSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77043	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.57	0.050	0.7086	0	81.0	67.2	113	6.76	14.3	
Toluene	0.60	0.050	0.7086	0	84.1	62.1	116	7.12	15.9	
Ethylbenzene	0.58	0.050	0.7086	0	82.3	67.9	127	6.76	14.4	
Xylenes, Total	1.8	0.10	2.126	0	83.2	60.6	134	5.99	12.6	
Surr: 4-Bromofluorobenzene	0.67		0.7086		94.8	80	120	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205556

15-May-12

Client: Animas Environmental Services

Project: COP EPNG COM D #5A

Sample ID	MB-1908	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBS	Batch ID	1908	RunNo	2746					
Prep Date	5/11/2012	Analysis Date	5/14/2012	SeqNo	77051	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.1	80	120			

Sample ID	LCS-1908	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSS	Batch ID	1908	RunNo	2746					
Prep Date	5/11/2012	Analysis Date	5/14/2012	SeqNo	77052	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

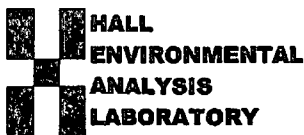
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



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: 1205556

Received by/date: AF 05/12/12

Logged By: Anne Thorne 5/12/2012 11:20:00 AM

Completed By: Anne Thorne 5/13/2012

Reviewed By: AT 05/13/12

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: ☐ 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	3.2	Good	Yes			



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

June 15, 2012

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-1776
FAX (505) 324-2022

RE: CoP EPNG ComD #5A

OrderNo.: 1206576

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/14/2012 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.

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', with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206576

Date Reported: 6/15/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: CoP EPNG ComD #5A

Collection Date: 6/13/2012 2:50:00 PM

Lab ID: 1206576-001

Matrix: MEOH (SOIL)

Received Date: 6/14/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	35	10		mg/Kg	1	6/14/2012 11:52:52 AM
Surr: DNOP	120	77.6-140		%REC	1	6/14/2012 11:52:52 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	0.050		mg/Kg	1	6/14/2012 2:32:37 PM
Toluene	ND	0.050		mg/Kg	1	6/14/2012 2:32:37 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/14/2012 2:32:37 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/14/2012 2:32:37 PM
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%REC	1	6/14/2012 2:32:37 PM
Surr: 4-Bromofluorobenzene	94.7	70-130		%REC	1	6/14/2012 2:32:37 PM
Surr: Dibromofluoromethane	91.1	71.7-132		%REC	1	6/14/2012 2:32:37 PM
Surr: Toluene-d8	87.8	70-130		%REC	1	6/14/2012 2:32:37 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: MMS
Gasoline Range Organics (GRO)	9.3	5.0		mg/Kg	1	6/14/2012 12:42:06 PM
Surr: BFB	94.7	70-130		%REC	1	6/14/2012 12:42:06 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206576

Date Reported: 6/15/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: CoP EPNG ComD #5A

Collection Date: 6/13/2012 2:48:00 PM

Lab ID: 1206576-002

Matrix: MEOH (SOIL)

Received Date: 6/14/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/14/2012 12:18:29 PM
Surr: DNOP	115	77.6-140		%REC	1	6/14/2012 12:18:29 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: MMS
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/14/2012 3:28:03 PM
Surr: BFB	94.2	70-130		%REC	1	6/14/2012 3:28:03 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206576

15-Jun-12

Client: Animas Environmental Services

Project: CoP EPNG ComD #5A

Sample ID	MB-2373	SampType	MBLK	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	PBS	Batch ID	2373	RunNo	3419					
Prep Date	6/13/2012	Analysis Date	6/14/2012	SeqNo	95468	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	11		10.00		113	77.6	140			

Sample ID	LCS-2373	SampType	LCS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	LCSS	Batch ID	2373	RunNo	3419					
Prep Date	6/13/2012	Analysis Date	6/14/2012	SeqNo	95469	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	71.2	52.6	130			
Surr: DNOP	4.6		5.000		92.3	77.6	140			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206576

15-Jun-12

Client: Animas Environmental Services

Project: CoP EPNG ComD #5A

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	R3438	RunNo:	3438					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	97068	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.0	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.8	70	130			
Surr: Dibromofluoromethane	0.41		0.5000		82.4	71.7	132			
Surr: Toluene-d8	0.46		0.5000		92.1	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	R3438	RunNo:	3438					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	97069	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.9	70.7	123			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.5	70	130			
Surr: Dibromofluoromethane	0.39		0.5000		77.4	71.7	132			
Surr: Toluene-d8	0.44		0.5000		87.3	70	130			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206576

15-Jun-12

Client: Animas Environmental Services

Project: CoP EPNG ComD #5A

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	R3438	RunNo:	3438					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	97088	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	470		500.0		93.8	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	R3438	RunNo:	3438					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	97089	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	85	115			
Surr: BFB	490		500.0		97.9	70	130			

Sample ID	1206443-002amsg	SampType:	MS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R3438	RunNo:	3438					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	97099	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	22.58	0	113	70	130			
Surr: BFB	410		451.7		90.4	70	130			

Sample ID	1206443-002amsdg	SampType:	MSD	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R3438	RunNo:	3438					
Prep Date:		Analysis Date:	6/14/2012	SeqNo:	97100	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	22.58	0	105	70	130	7.94	20	
Surr: BFB	400		451.7		89.0	70	130	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1206576

Received by/date: LM

06/14/12

Logged By: Michelle Garcia

6/14/2012 10:00:00 AM

Michelle Garcia

Completed By: Michelle Garcia

6/14/2012 10:12:09 AM

Michelle Garcia

Reviewed By:

AT 06/14/12

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° 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

