

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: Farmington Com 100	Facility Type: Gas Well

Surface Owner State	Mineral Owner State (OG-1649-1)	API No. 3004534574
----------------------------	--	---------------------------

LOCATION OF RELEASE

Unit Letter L	Section 36	Township 31N	Range 13W	Feet from the 2245	North/South Line South	Feet from the 1040	East/West Line West	County San Juan
-------------------------	----------------------	------------------------	---------------------	------------------------------	----------------------------------	------------------------------	-------------------------------	---------------------------

Latitude **36.855203** Longitude **108.160710**

NATURE OF RELEASE

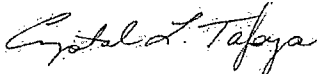

Type of Release Produced Fluids	Volume of Release Unknown	Volume Recovered None
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery September 18, 2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD JAN 25 '13	
By Whom?	Date and Hour OIL CONS. DIV.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 3	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Closure Activities

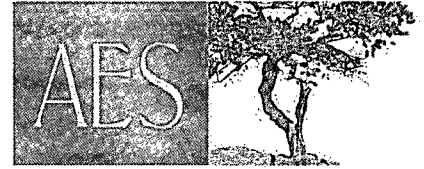
Describe Area Affected and Cleanup Action Taken.*
The regulatory standard for closure at this site was determined to be 1000 ppm. A sample was taken and then transported to the lab and analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 1/29/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval: C-144 Closure	Attached <input type="checkbox"/>
Date: 1/24/2013 Phone: (505) 326-9837	Permit needed for BGT Closure	

* Attach Additional Sheets If Necessary

nJK 1302953917



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

December 12, 2012

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

**RE: Below Grade Tank Closure Report
Farmington Com #100
San Juan County, New Mexico**

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Farmington Com #100, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Farmington Com #100

Legal Description – NW¼ SW¼, Section 36, T31N, R13W, San Juan County, New Mexico

Well Latitude/Longitude – N36.85523 and W108.16136, respectively

BGT Latitude/Longitude – N36.85511 and W108.16109, respectively

Land Jurisdiction – State of New Mexico

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, September 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated May 1991 for the Farmington Com #100 reported the depth to groundwater as greater than 100 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 greater than 100 feet bgs. Several small drainages are located approximately 240 feet north of the location. Based on this information, the location was assessed a ranking score of 10.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on September 18, 2012, and on the same day, Heather Woods and Zachary Trujillo of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On September 18, 2012, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

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

2.1.3 Chlorides

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

2.2 Laboratory Analyses

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

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening for VOCs via OVM ranged from 2.5 ppm in S-1 up to 4.0 ppm in S-4 and S-5. Field TPH concentrations ranged from 39.8 mg/kg in S-5 up to 62.7 mg/kg in S-1. The field chloride concentration in SC-1 was 40 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Farmington Com #100 BGT Closure, September 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
NMOCD Action Level (NMAC 19.15.17.13E)			--	100	250
S-1	9/18/12	0.5	2.5	62.7	NA
S-2	9/18/12	0.5	2.9	49.2	NA
S-3	9/18/12	0.5	3.3	57.3	NA
S-4	9/18/12	0.5	4.0	54.6	NA
S-5	9/18/12	0.5	4.0	39.8	NA
SC-1	9/18/12	0.5	3.0	NA	40

NA - not analyzed

Laboratory analytical results showed that the benzene and total BTEX concentrations in SC-1 were less than 0.050 mg/kg and less than 0.25 mg/kg, respectively. The laboratory chloride concentration was 70 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Farmington Com #100 BGT Closure, September 2012

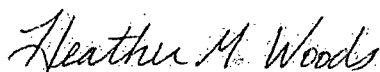
<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (ft)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
NMOCD Action Level (NMAC 19.15.17.13E)			0.2	50	250
SC-1	9/18/12	0.5	<0.050	<0.25	70

3.0 Conclusions and Recommendations

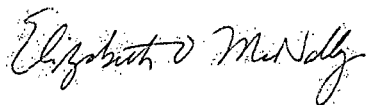
NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Field TPH concentrations were below the NMOCD action level of 100 mg/kg in all of the samples, with the highest concentration reported in S-1 with 62.7 mg/kg. Chloride concentrations in SC-1 were also below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, 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, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, September 2012
AES Field Screening Report 091812
Hall Analytical Report 1209778

C:\Dropbox\December 2012\ConocoPhillips\Farmington Com #100\Farmington Com #100 BGT Closure
Report 121212.docx

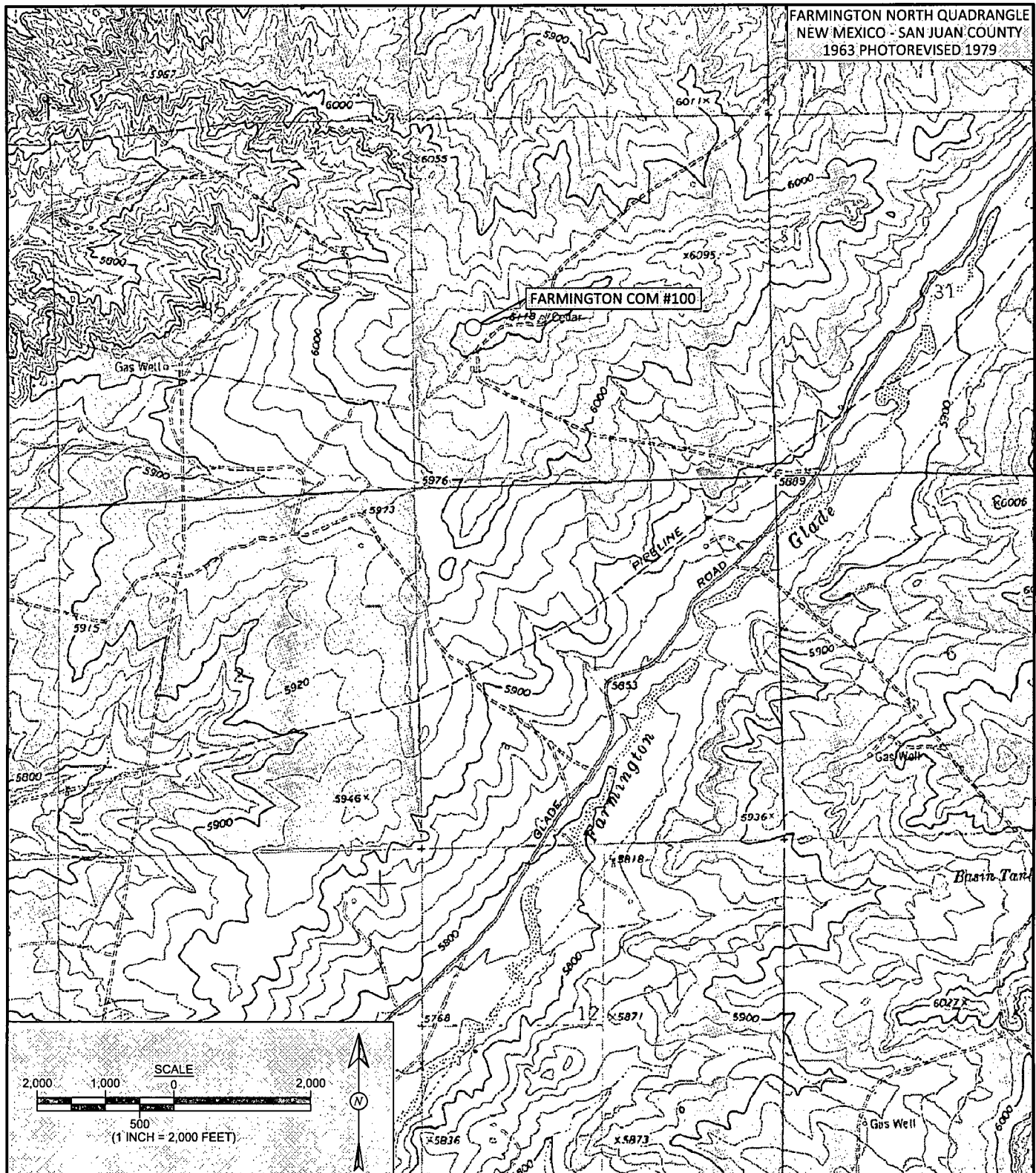


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
FARMINGTON COM #100
SAN JUAN COUNTY, NEW MEXICO
NW¼ SW¼, SECTION 36, T31N, R13W
N36.85523, W108.16136

DRAWN BY:

C. Lameman

DATE DRAWN:

October 2, 2012

REVISIONS BY:

C. Lameman

DATE REVISED:

October 2, 2012

CHECKED BY:

D. Watson

DATE CHECKED:

October 2, 2012

APPROVED BY:

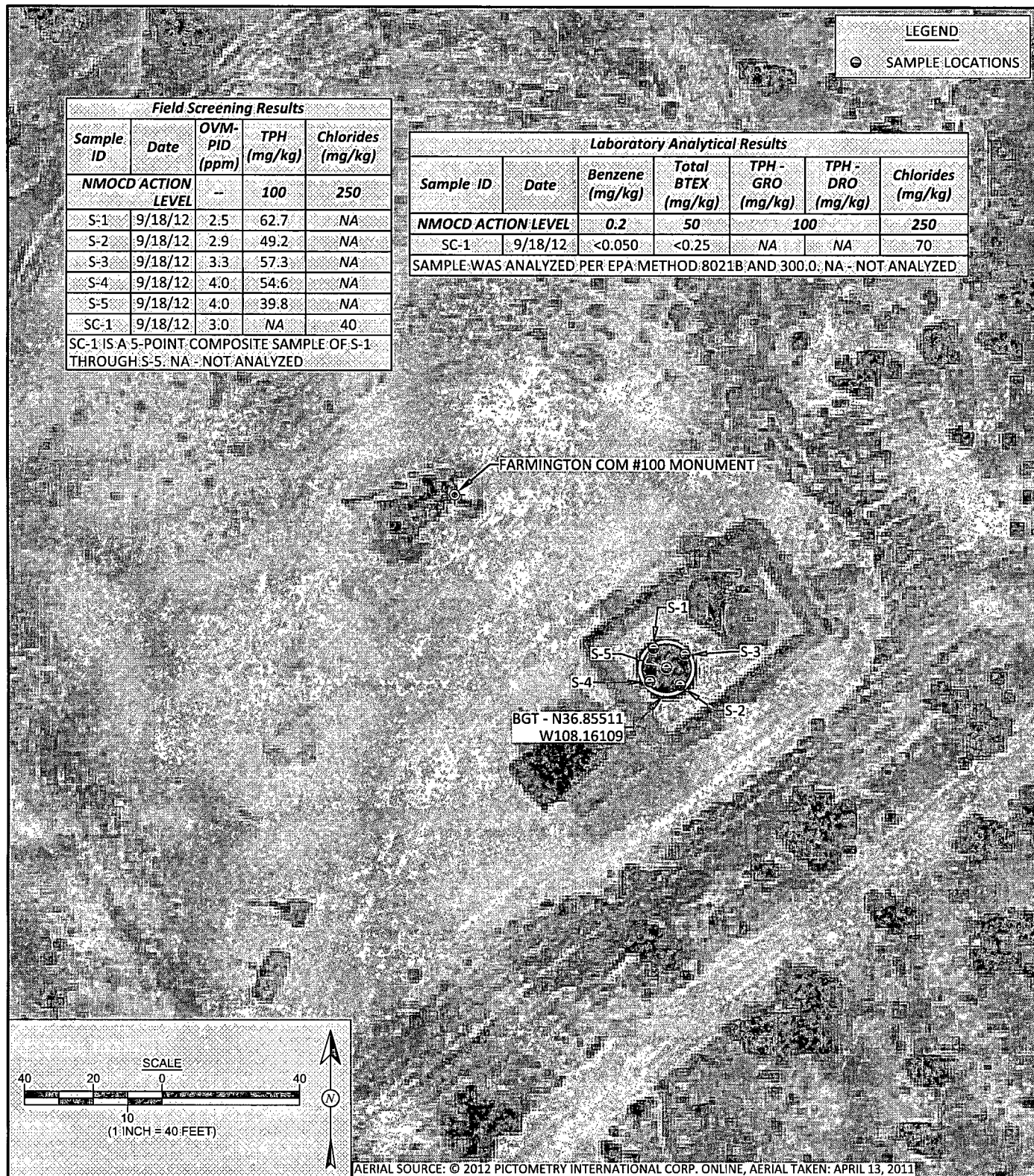
E. McNally

DATE APPROVED:

October 2, 2012



Animas Environmental Services, LLC



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 19, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 19, 2012
CHECKED BY: D. Watson	DATE CHECKED: September 19, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 19, 2012

FIGURE 2
AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
SEPTEMBER 2012
 ConocoPhillips
 FARMINGTON COM #100
 SAN JUAN COUNTY, NEW MEXICO
 NW¼ SW¼, SECTION 36, T31N, R13W
 N36.85523, W108.16136

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

Client: ConocoPhillips

Project Location: Farmington Com #100

Date: 9/18/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	9/18/2012	11:00	North	2.5	NA	11:09	62.7	20.0	1	HMW
S-2	9/18/2012	10:04	South	2.9	NA	10:48	49.2	20.0	1	HMW
S-3	9/18/2012	10:06	East	3.3	NA	10:50	57.3	20.0	1	HMW
S-4	9/18/2012	10:08	West	4.0	NA	10:55	54.6	20.0	1	HMW
S-5	9/18/2012	10:10	Center	4.0	NA	10:53	39.8	20.0	1	HMW
SC-1	9/18/2012	10:13	Composite	3.0	40	Not Analyzed for TPH.				

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

NA Not Analyzed

DF Dilution Factor

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Heather M. Woods



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

October 02, 2012

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP Farmington COM #100

OrderNo.: 1209778

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/19/2012 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

Analytical Report

Lab Order 1209778

Date Reported: 10/2/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** SC-1**Project:** COP Farmington COM #100**Collection Date:** 9/18/2012 10:18:00 AM**Lab ID:** 1209778-001**Matrix:** SOIL**Received Date:** 9/19/2012 10:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	9/19/2012 12:29:45 PM
Toluene	ND	0.050		mg/Kg	1	9/19/2012 12:29:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/19/2012 12:29:45 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/19/2012 12:29:45 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	9/19/2012 12:29:45 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	70	30		mg/Kg	20	9/19/2012 11:05:25 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209778

02-Oct-12

Client: Animas Environmental Services

Project: COP Farmington COM #100

Sample ID	1209695-005AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions						
Client ID:	BatchQC	Batch ID:	3814	RunNo:	5639						
Prep Date:	9/19/2012	Analysis Date:	9/19/2012	SeqNo:	161491	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	16	7.5	15.00	2.811	87.0	64.4	117				

Sample ID	1209695-005AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions						
Client ID:	BatchQC	Batch ID:	3814	RunNo:	5639						
Prep Date:	9/19/2012	Analysis Date:	9/19/2012	SeqNo:	161492	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	16	7.5	15.00	2.811	87.7	64.4	117	0.716	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#: 1209778

02-Oct-12

Client: Animas Environmental Services

Project: COP Farmington COM #100

Sample ID	MB-3808	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	3808	RunNo:	5622					
Prep Date:	9/18/2012	Analysis Date:	9/19/2012	SeqNo:	161690	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	84	116			

Sample ID	LCS-3808	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	3808	RunNo:	5622					
Prep Date:	9/18/2012	Analysis Date:	9/19/2012	SeqNo:	161697	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		105	84	116			

Sample ID	1209534-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	3808	RunNo:	5622					
Prep Date:	9/18/2012	Analysis Date:	9/19/2012	SeqNo:	161742	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		977.5		105	84	116			

Sample ID	1209534-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	3808	RunNo:	5622					
Prep Date:	9/18/2012	Analysis Date:	9/19/2012	SeqNo:	161743	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		976.6		104	84	116	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

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#: 1209778

02-Oct-12

Client: Animas Environmental Services

Project: COP Farmington COM #100

Sample ID	MB-3808		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	3808		RunNo:	5622			
Prep Date:	9/18/2012		Analysis Date:	9/19/2012		SeqNo:	161755		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	1.0		1.000		104	80	120			

Sample ID	LCS-3808		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	3808		RunNo:	5622			
Prep Date:	9/18/2012		Analysis Date:	9/19/2012		SeqNo:	161756		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.9	76.3	117			
Toluene	0.98	0.050	1.000	0	97.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	77	116			
Xylenes, Total	3.0	0.10	3.000	0	101	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	1209660-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	3808		RunNo:	5622			
Prep Date:	9/18/2012		Analysis Date:	9/19/2012		SeqNo:	161767		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.049	0.9766	0	101	67.2	113			
Toluene	1.0	0.049	0.9766	0	104	62.1	116			
Ethylbenzene	1.0	0.049	0.9766	0	107	67.9	127			
Xylenes, Total	3.1	0.098	2.930	0	107	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9766		109	80	120			

Sample ID	1209660-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	3808		RunNo:	5622			
Prep Date:	9/18/2012		Analysis Date:	9/19/2012		SeqNo:	161768		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.049	0.9766	0	93.9	67.2	113	6.79	14.3	
Toluene	0.93	0.049	0.9766	0	95.1	62.1	116	8.86	15.9	
Ethylbenzene	0.97	0.049	0.9766	0	99.4	67.9	127	7.24	14.4	
Xylenes, Total	2.9	0.098	2.930	0	98.7	60.6	134	8.46	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9766		108	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

- 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#: 1209778

02-Oct-12

Client: Animas Environmental Services

Project: COP Farmington COM #100

Sample ID	1209794-040AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	3860	RunNo:	5692					
Prep Date:	9/20/2012	Analysis Date:	9/22/2012	SeqNo:	163556	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		9.852		101	80	120			

Sample ID	1209794-040AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	3860	RunNo:	5692					
Prep Date:	9/20/2012	Analysis Date:	9/22/2012	SeqNo:	163557	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.9		9.872		99.9	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

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#: 1209778

02-Oct-12

Client: Animas Environmental Services

Project: COP Farmington COM #100

Sample ID	mb-3808		SampType:	MBLK		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	PBS		Batch ID:	3808		RunNo:	5671				
Prep Date:	9/18/2012		Analysis Date:	9/20/2012		SeqNo:	162464		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.39		0.5000		78.4	70	130				
Surr: 4-Bromofluorobenzene	0.42		0.5000		83.2	70	130				
Surr: Dibromofluoromethane	0.46		0.5000		92.1	70	130				
Surr: Toluene-d8	0.36		0.5000		72.8	70	130				

Sample ID	lcs-3808		SampType:	LCS		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	LCSS		Batch ID:	3808		RunNo:	5671				
Prep Date:	9/18/2012		Analysis Date:	9/20/2012		SeqNo:	162465		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.8	70	130				
Surr: 4-Bromofluorobenzene	0.41		0.5000		82.5	70	130				
Surr: Dibromofluoromethane	0.47		0.5000		94.7	70	130				
Surr: Toluene-d8	0.36		0.5000		72.3	70	130				

Sample ID	1209696-001ams		SampType:	MS		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	BatchQC		Batch ID:	3808		RunNo:	5671				
Prep Date:	9/18/2012		Analysis Date:	9/20/2012		SeqNo:	162466		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.40		0.4892		82.6	70	130				
Surr: 4-Bromofluorobenzene	0.42		0.4892		85.2	70	130				
Surr: Dibromofluoromethane	0.36		0.4892		73.3	70	130				
Surr: Toluene-d8	0.35		0.4892		72.2	70	130				

Sample ID	1209696-001amsd		SampType:	MSD		TestCode:	EPA Method 8260B: VOLATILES				
Client ID:	BatchQC		Batch ID:	3808		RunNo:	5671				
Prep Date:	9/18/2012		Analysis Date:	9/20/2012		SeqNo:	162468		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.41		0.4892		82.9	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.41		0.4892		84.8	70	130	0	0		
Surr: Dibromofluoromethane	0.39		0.4892		80.0	70	130	0	0		
Surr: Toluene-d8	0.35		0.4892		72.6	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

- 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: 1209778

Received by/date: AT 09/19/12

Logged By: Anne Thorne 9/19/2012 10:13:00 AM *Anne Thorne*

Completed By: Anne Thorne 9/19/2012 *Anne Thorne*

Reviewed By: AT 09/19/12

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			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche Farmington, NM 87401

Phone #: 505-564-2201

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 Farmington Com #100

Project #:

Project Manager: D. Watson

Sampler: H. Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 10

HEAL No: 1204778

Container Type and #: Meth K + 4 oz Jar

Preservative Type: Meth Non

Analysis Request

BTEX + MEK + 419s (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Date: 9/18/12

Time: 1018

Matrix: Soil

Sample Request ID: SC-1

Date: 9/18/12

Time: 1522

Relinquished by: Heather M. Woods

Date: 9/18/12

Time: 1641

Relinquished by: Christine Wheeler

Received by: Christine Wheeler

Date: 9/18/12

Time: 1522

Received by: [Signature]

Date: 09/19/12

Time: 1013

Remarks: Bill to ConocoPhillips

WO# 10338974

Activity: C200

Super: Harry Dee

User ID: KAITLW

work ordered by: Bruce Yazzie

Area: 1

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This service at notice of this necessity. Any such subcontracted data will be clearly marked as such.