

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

OIL CONS. DIV DIST. 3

FEB 24 2016

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

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607
Facility Name: San Juan 27-4 Com 137	Facility Type: Gas Well

Surface Owner Federal	Mineral Owner Federal	API No. 3003922376
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LOCATION OF RELEASE

Unit Letter A	Section 34	Township 27N	Range 04W	Feet from the 800	North/South Line North	Feet from the 1120	East/West Line East	County Rio Arriba
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Latitude 36.53469 Longitude -107.23341

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered None
Source of Release Below Grade Tank (BGT) Closure	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 10-22-12
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

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

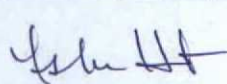
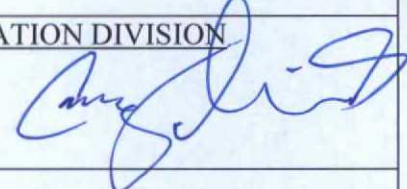
Describe Cause of Problem and Remedial Action Taken.*

Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.

Describe Area Affected and Cleanup Action Taken.*

NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 10. Samples were collected and analytical results are below applicable NMOCD action levels. No further work will be performed. 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: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 3/8/14	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: February 11, 2016	Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary

#NCS1606838714

17



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

February 11, 2013

Ashley Maxwell
ConocoPhillips
San Juan Business Unit
Office 216-2
5525 Hwy 64
Farmington, New Mexico 87401

**RE: Below Grade Tank Closure Report
San Juan 27-4 Com #137
Rio Arriba County, New Mexico**

Dear Ms. Maxwell:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) San Juan 27-4 Com #137, located in Rio Arriba 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 – San Juan 27-4 Com #137

Legal Description - NE¼ NE¼, Section 34, T27N, R4W, Rio Arriba County, New Mexico

Well Latitude/Longitude - N36.53483 and W107.23351, respectively

BGT Latitude/Longitude - N36.53469 and W107.23341, respectively

Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, October 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no ranking information was located. 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 below ground surface (bgs). The wash in Ciruelas Canyon is located approximately 800 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 October 22, 2012, and on October 23, 2012, Heather Woods and Zachary Trujillo of AES met with a CoP representative at the location. AES personnel collected six soil samples from the 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 October 23, 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 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 samples were 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;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B;
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 8.4 ppm in S-3 up to 18.0 ppm in S-5. Field TPH concentrations ranged from 84.3 mg/kg in S-5 up to 236 mg/kg in S-4. 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
San Juan 27-4 Com #137 BGT Closure, October 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	10/23/12	0.5	12.4	174	NA
S-2	10/23/12	0.5	9.8	105	NA
S-3	10/23/12	0.5	8.4	112	NA
S-4	10/23/12	0.5	15.3	236	NA
S-5	10/23/12	0.5	18.0	84.3	NA
SC-1	10/23/12	0.5	NA	NA	40

NA - not analyzed

Laboratory analytical results reported the benzene concentration in SC-1 as less than 0.050 mg/kg and the total BTEX concentration as 0.11 mg/kg. TPH concentrations were reported at 49 mg/kg GRO and less than 9.9 mg/kg DRO. The laboratory chloride concentration was 56 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
San Juan 27-4 Com #137 BGT Closure, October 2012

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)			0.2	50	100		250
SC-1	10/23/12	0.5	<0.050	0.11	49	<9.9	56

3.0 Conclusions and Recommendations

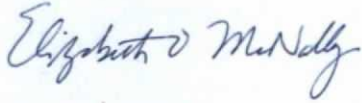
NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in four samples, S-1 (174 mg/kg), S-2 (105 mg/kg), S-3 (112mg/kg), and S-4 (236 mg/kg). However, laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 100 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action level of 0.2 mg/kg and 50 mg/kg, respectively. 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 for the BGT closure at the San Juan 27-4 Com #137.

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, October 2012
- AES Field Screening Report 102312
- Hall Analytical Report 1210B44

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 27-4 #137\SJ 27-4 Com #137 BGT Closure
Report 021113.docx

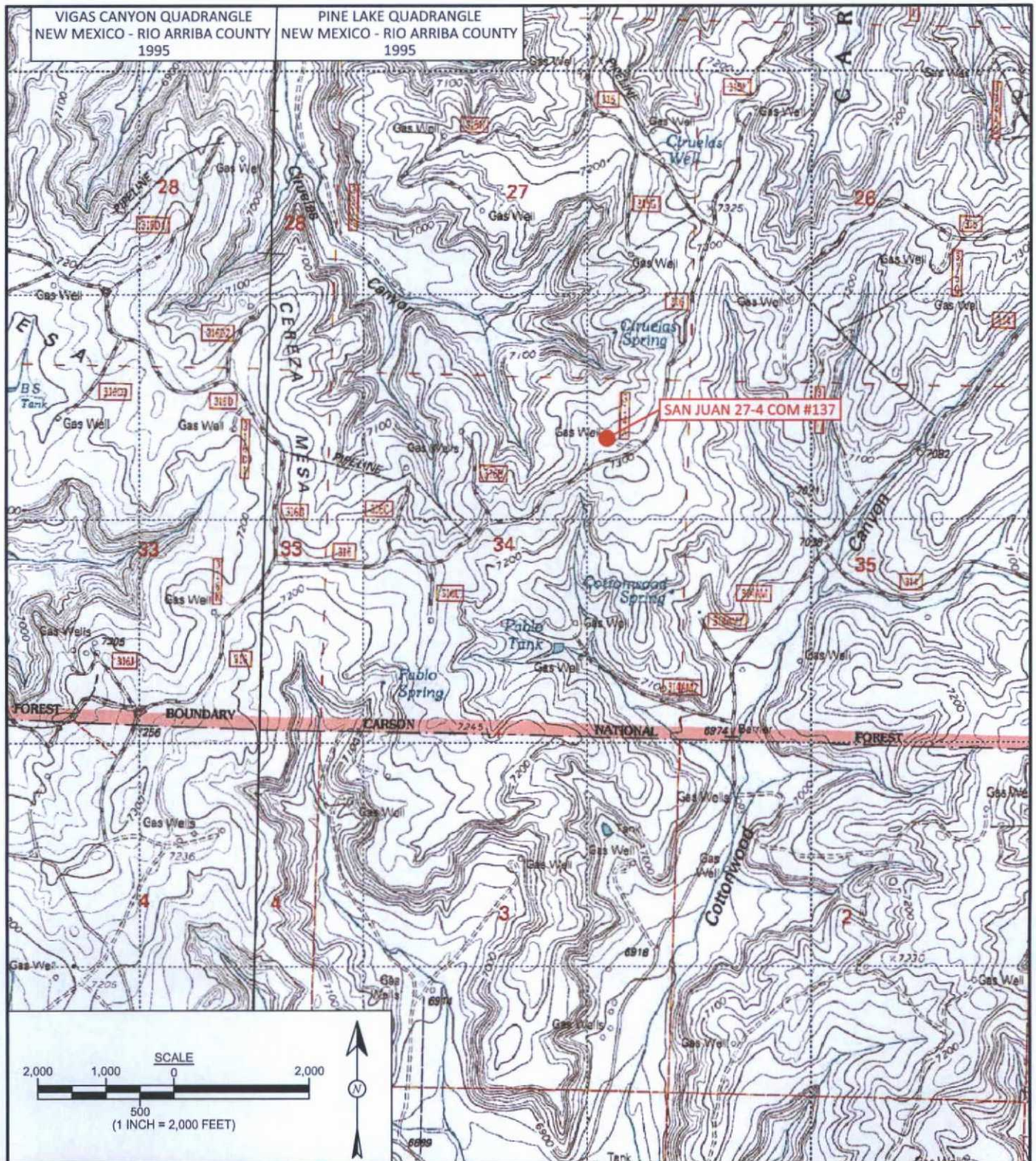


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
SAN JUAN 27-4 COM #137
RIO ARriba COUNTY, NEW MEXICO
NE¼ NE¼, SECTION 34, T27N, R4W
N36.53483, W107.23351

DRAWN BY: C. Lameman	DATE DRAWN: November 23, 2012
REVISIONS BY: C. Lameman	DATE REVISED: November 23, 2012
CHECKED BY: D. Watson	DATE CHECKED: November 23, 2012
APPROVED BY: E. McNally	DATE APPROVED: November 23, 2012

LEGEND

● SAMPLE LOCATIONS

Field Screening Results				
Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL	--	--	100	250
S-1	10/23/12	12.4	174	NA
S-2	10/23/12	9.8	105	NA
S-3	10/23/12	8.4	112	NA
S-4	10/23/12	15.3	236	NA
S-5	10/23/12	18.0	84.3	NA
SC-1	10/23/12	NA	NA	40

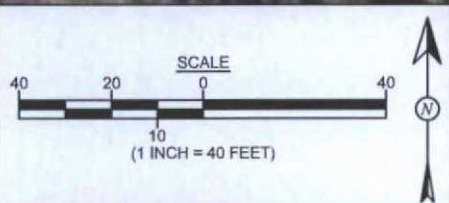
SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED

Laboratory Analytical Results						
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	100		250
SC-1	10/23/12	<0.050	0.11	49	<9.9	56

SAMPLE WAS ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0.

SAN JUAN 27-4 COM #137 WELLHEAD

BGT - N36.53469
W107.23341



AERIAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE

FIGURE 2

**AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
OCTOBER 2012**

ConocoPhillips
SAN JUAN 27-4 COM #137
RIO ARriba COUNTY, NEW MEXICO
NE¼ NE¼, SECTION 34, T27N, R4W
N36.53483, W107.23351



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: November 23, 2012
REVISIONS BY: C. Lameman	DATE REVISED: November 23, 2012
CHECKED BY: D. Watson	DATE CHECKED: November 23, 2012
APPROVED BY: E. McNally	DATE APPROVED: November 23, 2012

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 27-4 Com #137

Date: 10/23/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVMM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	10/23/2012	11:00	North	12.4	NA	11:57	174	20.0	1	HMW
S-2	10/23/2012	11:02	South	9.8	NA	12:00	105	20.0	1	HMW
S-3	10/23/2012	11:04	East	8.4	NA	12:03	112	20.0	1	HMW
S-4	10/23/2012	11:06	West	15.3	NA	12:05	236	20.0	1	HMW
S-5	10/23/2012	11:08	Center	18.0	NA	12:08	84.3	20.0	1	HMW
SC-1	10/23/2012	11:13	Composite	NA	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 31, 2012

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

RE: COP San Juan 27-4 #137

OrderNo.: 1210B44

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/25/2012 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", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1210B44

Date Reported: 10/31/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: COP San Juan 27-4 #137

Collection Date: 10/23/2012 11:13:00 AM

Lab ID: 1210B44-001

Matrix: MEOH (SOIL)

Received Date: 10/25/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/25/2012 11:12:39 AM
Surr: DNOP	100	77.6-140		%REC	1	10/25/2012 11:12:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	49	5.0		mg/Kg	1	10/25/2012 12:20:46 PM
Surr: BFB	593	84-116	S	%REC	1	10/25/2012 12:20:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/25/2012 12:20:46 PM
Toluene	ND	0.050		mg/Kg	1	10/25/2012 12:20:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2012 12:20:46 PM
Xylenes, Total	0.11	0.10		mg/Kg	1	10/25/2012 12:20:46 PM
Surr: 4-Bromofluorobenzene	118	80-120		%REC	1	10/25/2012 12:20:46 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	56	30		mg/Kg	20	10/25/2012 12:09:40 PM

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210B44

31-Oct-12

Client: Animas Environmental Services

Project: COP San Juan 27-4 #137

Sample ID	MB-4526	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	4526	RunNo:	6496					
Prep Date:	10/25/2012	Analysis Date:	10/25/2012	SeqNo:	187004	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-4526	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	4526	RunNo:	6496					
Prep Date:	10/25/2012	Analysis Date:	10/25/2012	SeqNo:	187005	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID	1210A01-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	4526	RunNo:	6496					
Prep Date:	10/25/2012	Analysis Date:	10/25/2012	SeqNo:	187036	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	20	7.5	15.00	7.197	83.2	64.4	117			

Sample ID	1210A01-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	4526	RunNo:	6496					
Prep Date:	10/25/2012	Analysis Date:	10/25/2012	SeqNo:	187037	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	20	7.5	15.00	7.197	85.9	64.4	117	2.04	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#: 1210B44

31-Oct-12

Client: Animas Environmental Services

Project: COP San Juan 27-4 #137

Sample ID	MB-4517	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	4517	RunNo:	6441					
Prep Date:	10/24/2012	Analysis Date:	10/25/2012	SeqNo:	186402	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	10		10.00		101	77.6	140			

Sample ID	LCS-4517	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	4517	RunNo:	6441					
Prep Date:	10/24/2012	Analysis Date:	10/25/2012	SeqNo:	186419	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.3	52.6	130			
Surr: DNOP	4.5		5.000		90.8	77.6	140			

Sample ID	1210A51-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	4517	RunNo:	6441					
Prep Date:	10/24/2012	Analysis Date:	10/25/2012	SeqNo:	186977	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.8	49.02	0	81.6	57.2	146			
Surr: DNOP	4.4		4.902		90.3	77.6	140			

Sample ID	1210A51-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	4517	RunNo:	6441					
Prep Date:	10/24/2012	Analysis Date:	10/25/2012	SeqNo:	186978	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.9	49.70	0	85.9	57.2	146	6.54	24.5	
Surr: DNOP	4.5		4.970		91.1	77.6	140	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#: 1210B44

31-Oct-12

Client: Animas Environmental Services

Project: COP San Juan 27-4 #137

Sample ID	MB-4474	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	4474	RunNo:	6487					
Prep Date:	10/23/2012	Analysis Date:	10/25/2012	SeqNo:	187625	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	950		1000		95.0	84	116			

Sample ID	LCS-4474	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	4474	RunNo:	6487					
Prep Date:	10/23/2012	Analysis Date:	10/25/2012	SeqNo:	187626	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	74	117			
Surr: BFB	1000		1000		100	84	116			

Sample ID	1210A08-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	4474	RunNo:	6487					
Prep Date:	10/23/2012	Analysis Date:	10/25/2012	SeqNo:	187638	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	4.9	24.34	11.22	90.8	70	130			
Surr: BFB	1100		973.7		117	84	116			S

Sample ID	1210A08-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	4474	RunNo:	6487					
Prep Date:	10/23/2012	Analysis Date:	10/25/2012	SeqNo:	187639	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	4.9	24.39	11.22	89.9	70	130	0.479	22.1	
Surr: BFB	1100		975.6		115	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#: 1210B44

31-Oct-12

Client: Animas Environmental Services

Project: COP San Juan 27-4 #137

Sample ID	MB-4474		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	4474		RunNo:	6487				
Prep Date:	10/23/2012		Analysis Date:	10/25/2012		SeqNo:	187651		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		102	80	120				

Sample ID	LCS-4474		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 4474		RunNo: 6487					
Prep Date:	10/23/2012		Analysis Date: 10/25/2012		SeqNo: 187652		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	105	76.3	117			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	77	116			
Xylenes, Total	3.2	0.10	3.000	0	106	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	1210A21-001AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	BatchQC		Batch ID: 4474		RunNo: 6487					
Prep Date:	10/23/2012		Analysis Date: 10/25/2012		SeqNo: 187719		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.048	0.9653	0	97.3	67.2	113			
Toluene	0.96	0.048	0.9653	0	99.1	62.1	116			
Ethylbenzene	0.97	0.048	0.9653	0	101	67.9	127			
Xylenes, Total	2.9	0.097	2.896	0	101	60.6	134			
Surr: 4-Bromofluorobenzene	1.0		0.9653		106	80	120			

Sample ID	1210A21-001AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles					
Client ID:	BatchQC		Batch ID: 4474		RunNo: 6487					
Prep Date:	10/23/2012		Analysis Date: 10/25/2012		SeqNo: 187720		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.048	0.9653	0	102	67.2	113	5.00	14.3	
Toluene	1.0	0.048	0.9653	0	104	62.1	116	5.16	15.9	
Ethylbenzene	1.0	0.048	0.9653	0	108	67.9	127	6.85	14.4	
Xylenes, Total	3.1	0.097	2.896	0	109	60.6	134	7.20	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9653		106	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



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: 1210B44

Received by/date:  10/25/12

Logged By: Ashley Gallegos 10/25/2012 10:05:00 AM 

Completed By: Ashley Gallegos 10/25/2012 10:16:32 AM 

Reviewed By:  10/25/12

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:
(<2 or >12 unless noted)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
Checked by: _____
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 ☐

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
2	1.0	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>Animas Environmental</u>	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush <u>same day</u>
<u>Services LLC</u>	Project Name:	
Mailing Address: <u>624 E Comanche</u>	<u>CoP San Juan 27-4 #137</u>	
<u>Farmington, NM 87401</u>	Project #:	
Phone #: <u>505 564 2281</u>		
email or Fax#:	Project Manager:	
QA/QC Package:	<u>D Watson</u>	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation	Sampler: <u>H Woods</u>	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____	
<input type="checkbox"/> EDD (Type) _____	On site <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Sample Temperature <u>10</u>	

☐ Standard ☒ Rush same day

CoP San Juan 27-4 #137

Project Manager:

D Watson

Sampler: # Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 10

Container
Type and #Preservative
Type

1210R(U)

Med4 Kit / 402

~~Molt~~

- 00

BTEX + ~~THF~~ + ~~PAHs~~ (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel) *600/100*

TPH (Method 418.1)

EDB (Method 504.1)

3310 (DNA of BAH)

0310 (FNA 01 FAN)

RCRA & Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

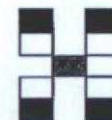
3260B (VOA)

3270 (Semi-VOA)

360.0 chlorides

10

Air Bubbles (Y or N)



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
01/24/12	1624	Heather M. Woods	Christine W. Weber	01/24/12	1624
Date:	Time:	Relinquished by:	Received by:	Date	Time
2/24/12	1741	Christine W. Weber	Heather M. Woods	10/25/12	1005

Remarks: Pull to ConozPhillips
 WO: 10340353 work ordered by: Bruce Yazzie
 activity code: C200
 Area: 25
 user ID: KGARCIA

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