

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th Street, Farmington, NM	Telephone No. 505-326-9786
Facility Name San Juan 28-7 244M	Facility Type Gas Well

Surface Owner BLM	Mineral Owner BLM	API No. 3003926873
--------------------------	--------------------------	---------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	7	27N	7W	850'	North	965'	West	Rio Arriba

Latitude 36.5932 Longitude -107.62078

NATURE OF RELEASE

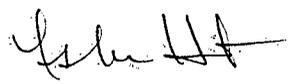
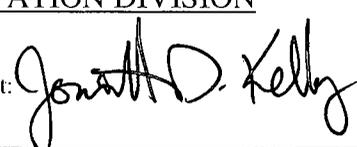
Type of Release Produced Water Condensate	Volume of Release Produced Water 36.74 BBLs Condensate 5.01 BBLs	Volume Recovered 0 BBL 0 BBL
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 03-06-2013; 9:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell - NMOCD Mark Kelly - BLM FFO	
By Whom? Lisa Hunter	Date and Hour NMOCD - 03-06-2013 @ 1:51 PM BLM FFO - 03-06-2013 @ 1:51 PM OIL CONS. DIV DIST. 3	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. JUL 05 2013	

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

Describe Cause of Problem and Remedial Action Taken.*
Production tank developed a leak due to corrosion causing the release of 36.74 BBLs of Produced Water and 5.01 BBLs of Condensate. Zero BBLs were recovered.

Describe Area Affected and Cleanup Action Taken.*
ConocoPhillips will replace the tank and assess the soils to determine further action, if needed. **Analytical results were below the regulatory standards - no further action required. 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: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 8/1/2013	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 1, 2013 Phone: 505-326-9786		

* Attach Additional Sheets If Necessary

nJK132134A13



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

June 24, 2013

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-4
5525 Hwy 64
Farmington, New Mexico 87401

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

**RE: Release Assessment Report
San Juan 28-7 #244M
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

On March 11, 2013, Animas Environmental Services, LLC (AES) completed a release assessment at the ConocoPhillips (CoP) San Juan 28-7 #244M, located in Rio Arriba County, New Mexico. The release was reported to consist of produced water and condensate which leaked from a 400 barrels (bbl) production tank. The release remained within a bermed secondary containment area on the location.

1.0 Site Information

1.1 Location

Location - NW¼ NW¼, Section 7, T27N, R7W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude - N36.59338 and W107.62112, respectively
Release Location Latitude/Longitude – N36.59352 and W107.62133 respectively
Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no depth to groundwater information could be located for the San Juan 28-7 #244M or nearby wells. 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), based on the elevation differential to the nearest surface water. An unnamed wash is located approximately 775 feet southeast of the location and drains to Smith Canyon. Based on this information, the location was assessed a ranking score of 10 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Release Assessment

AES was initially contacted by Lisa Hunter of CoP on March 6, 2013, and on March 11, 2013, Heather Woods and Kelsey Christiansen of AES completed the release assessment field work. The assessment included collection and field screening of 14 soil samples from 9 soil borings (SB-1 through SB-9). Sample locations are shown on Figure 3.

2.0 Soil Sampling

A total of 14 soil samples were collected from 9 soil borings (SB-1 through SB-9) during the assessment. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Additionally, samples SB-1 through SB-3, SB-8, and SB-9 were composited into sample SC-1, and samples SB-4 through SB-7 were composited into SC-2, which 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 soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8260B;
- TPH for gasoline range organics (GRO) per USEPA Method 8015M and diesel range organics (DRO) per USEPA Method 8015B; and
- Chloride per USEPA Method 300.0.

2.3 Field Screening and Laboratory Analytical Results

Assessment field screening readings for VOCs via OVM ranged from 5.6 ppm in SB-7 up to 29.4 ppm in SB-2. In each of the samples selected for field screening of TPH, concentrations were reported as less than 20.0 mg/kg. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs and TPH Results
 San Juan 28-7 #244M Release Assessment, March 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
<i>NMOC</i> D Action Level*			100	1,000
SB-1	3/11/13	Surface	13.2	NA
		1	16.2	<20.0
SB-2	3/11/13	Surface	29.4	NA
		1	17.5	<20.0
SB-3	3/11/13	Surface	25.7	<20.0
SB-4	3/11/13	Surface	19.4	NA
		1	21.1	<20.0
SB-5	3/11/13	Surface-1	10.1	NA
SB-6	3/11/13	Surface	8.6	NA
SB-7	3/11/13	Surface	5.6	<20.0
SB-8	3/11/13	Surface	8.6	NA
		1	8.8	NA

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<i>NMOCD Action Level*</i>			100	1,000
SB-9	3/11/13	Surface	19.3	NA
		1	23.0	<20.0

NA – Not Analyzed

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

Laboratory analytical results for SC-1 and SC-2 were used to confirm field screening results from the assessment. Benzene concentrations were reported below the laboratory detection limit of 0.046 mg/kg and 0.049 mg/kg in SC-1 and SC-2, respectively. Total BTEX concentrations were 0.064 mg/kg in SC-1 and 0.82 mg/kg in SC-2. TPH concentrations (as GRO/DRO) were reported below laboratory detection limits of 14.5 mg/kg (SC-1) and 15 mg/kg (SC-2). Chloride concentrations were reported at 470 mg/kg in SC-1 and 790 mg/kg in SC-2. Results are presented in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chloride
San Juan 28-7 #244M Release Assessment, March 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH-GRO (mg/kg)</i>	<i>TPH-DRO (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
<i>NMOCD Action Level*</i>			10	50	1,000*		--
SC-1	3/11/13	Surface	<0.046	0.064	<4.6	<9.9	470
SC-2	3/11/13	Surface	<0.049	0.82	<4.9	<10	790

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

3.0 Conclusions and Recommendations

On March 11, 2013, AES conducted an assessment of a produced water and condensate release from the production tank at the San Juan 28-7 #244M. 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 ranking of 10. Field screening showed concentrations below the NMOCD action levels of 100 ppm VOCs and 1,000 mg/kg TPH in each of the soil borings (SB-1 through SB-9). The highest VOC concentration was 29.4 ppm in SB-2, and TPH concentrations were less than 20.0 mg/kg in each screened sample. Laboratory analytical results showed that benzene, total

BTEX, and TPH concentrations were below the applicable NMOCD action levels in SC-1 and SC-2. Chloride concentrations were reported as 470 mg/kg in SC-1 and 790 mg/kg in SC-2.

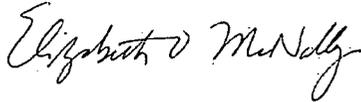
Based on field screening and laboratory analytical results for the produced water and condensate release at the San Juan 28-7 #244M, benzene, total BTEX, VOCs, and TPH concentrations were below applicable NMOCD action levels. No further work is recommended.

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

Sincerely,



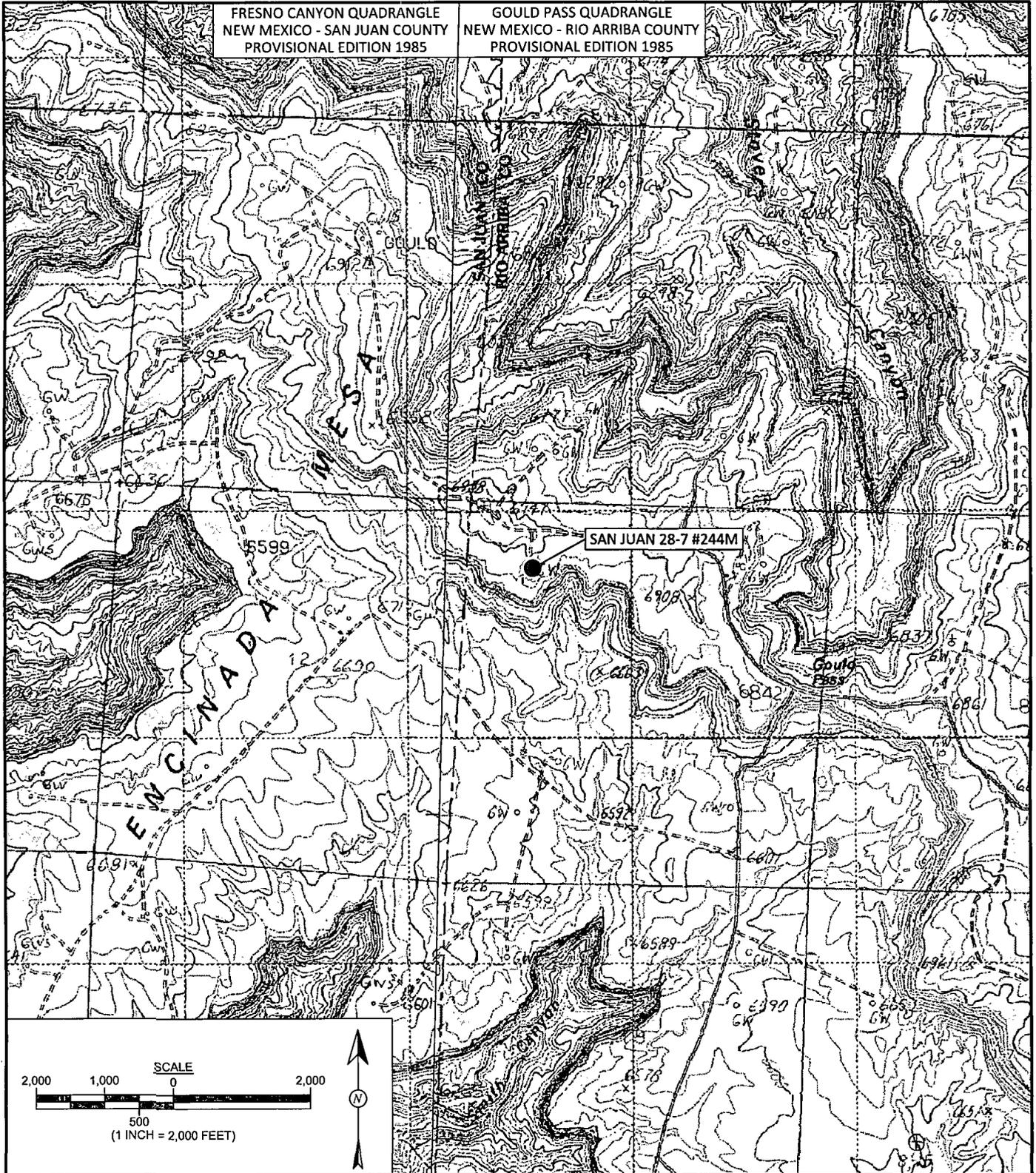
Landrea Cupps
Environmental Scientist



Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2013
- Figure 3. Release Assessment Sample Locations and Results, March 2013
- AES Field Screening Report 031113
- Hall Laboratory Analytical Report 1303458



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: March 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: March 11, 2013
CHECKED BY: D. Watson	DATE CHECKED: June 17, 2013
APPROVED BY: E. McNally	DATE APPROVED: June 17, 2013

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
 SAN JUAN 28-7 #244M
 NW¼ NW¼, SECTION 7, T27N, R7W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.59338, W107.62112

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 28-7 #244M

Date: 3/11/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ Surface	3/11/2013	10:50	13.2	Not analyzed for field TPH				
SB-1 @ 1'	3/11/2013	10:53	16.2	12:13	<20.0	20.0	1	HMW
SB-2 @ Surface	3/11/2013	10:54	29.4	Not analyzed for field TPH				
SB-2 @ 1'	3/11/2013	10:56	17.5	12:17	<20.0	20.0	1	HMW
SB-3 @ Surface	3/11/2013	10:59	25.7	12:21	<20.0	20.0	1	HMW
SB-4 @ Surface	3/11/2013	11:10	19.4	Not analyzed for field TPH				
SB-4 @ 1'	3/11/2013	11:15	21.1	12:25	<20.0	20.0	1	HMW
SB-5 @ Surface-1'	3/11/2013	11:24	10.1	Not analyzed for field TPH				
SB-6 @ Surface	3/11/2013	11:30	8.6	Not analyzed for field TPH				
SB-7 @ Surface	3/11/2013	11:40	5.6	12:29	<20.0	20.0	1	HMW
SB-8 @ Surface	3/11/2013	11:46	8.6	Not analyzed for field TPH				
SB-8 @ 1'	3/11/2013	11:49	8.8	Not analyzed for field TPH				
SB-9 @ Surface	3/11/2013	11:53	19.3	Not analyzed for field TPH				
SB-9 @ 1'	3/11/2013	11:55	23.0	12:35	<20.0	20.0	1	HMW

PQL Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

ND Not Detected at the Reporting Limit

*Field TPH concentrations recorded may be below PQL.

NA Not Analyzed

DF Dilution Factor

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

March 20, 2013

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP San Juan 28-7 #244M

OrderNo.: 1303458

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/12/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: CoP San Juan 28-7 #244M

Collection Date: 3/11/2013 1:01:00 PM

Lab ID: 1303458-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/15/2013 5:09:51 PM
Surr: DNOP	116	72.4-120		%REC	1	3/15/2013 5:09:51 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	470	30		mg/Kg	20	3/13/2013 10:58:40 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	3/15/2013 4:16:25 AM
Toluene	0.064	0.046		mg/Kg	1	3/15/2013 4:16:25 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/15/2013 4:16:25 AM
Xylenes, Total	ND	0.092		mg/Kg	1	3/15/2013 4:16:25 AM
Surr: 1,2-Dichloroethane-d4	88.2	70-130		%REC	1	3/15/2013 4:16:25 AM
Surr: 4-Bromofluorobenzene	86.0	70-130		%REC	1	3/15/2013 4:16:25 AM
Surr: Dibromofluoromethane	95.1	70-130		%REC	1	3/15/2013 4:16:25 AM
Surr: Toluene-d8	98.4	70-130		%REC	1	3/15/2013 4:16:25 AM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/15/2013 4:16:25 AM
Surr: BFB	86.0	70-130		%REC	1	3/15/2013 4:16:25 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: CoP San Juan 28-7 #244M
Lab ID: 1303458-002

Client Sample ID: SC-2
Collection Date: 3/11/2013 1:03:00 PM
Received Date: 3/12/2013 9:53:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/15/2013 6:19:19 PM
Surr: DNOP	115	72.4-120		%REC	1	3/15/2013 6:19:19 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	790	30		mg/Kg	20	3/13/2013 11:48:20 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	3/15/2013 2:05:00 PM
Toluene	0.22	0.049		mg/Kg	1	3/15/2013 2:05:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/15/2013 2:05:00 PM
Xylenes, Total	0.60	0.097		mg/Kg	1	3/15/2013 2:05:00 PM
Surr: 1,2-Dichloroethane-d4	88.9	70-130		%REC	1	3/15/2013 2:05:00 PM
Surr: 4-Bromofluorobenzene	88.9	70-130		%REC	1	3/15/2013 2:05:00 PM
Surr: Dibromofluoromethane	94.7	70-130		%REC	1	3/15/2013 2:05:00 PM
Surr: Toluene-d8	101	70-130		%REC	1	3/15/2013 2:05:00 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/15/2013 2:05:00 PM
Surr: BFB	88.9	70-130		%REC	1	3/15/2013 2:05:00 PM

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303458

20-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-7 #244M

Sample ID	MB-6462	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	6462	RunNo:	9161					
Prep Date:	3/13/2013	Analysis Date:	3/13/2013	SeqNo:	260578	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-6462	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	6462	RunNo:	9161					
Prep Date:	3/13/2013	Analysis Date:	3/13/2013	SeqNo:	260579	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.3	90	110			

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#: 1303458

20-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-7 #244M

Sample ID	MB-6468	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6468	RunNo:	9198					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262109	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		111	72.4	120			

Sample ID	LCS-6468	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6468	RunNo:	9198					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262110	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	47.4	122			
Surr: DNOP	5.7		5.000		114	72.4	120			

Sample ID	1303458-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	6468	RunNo:	9198					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262127	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.9	49.60	0	101	12.6	148			
Surr: DNOP	5.6		4.960		113	72.4	120			

Sample ID	1303458-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	6468	RunNo:	9198					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262128	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	49.80	0	102	12.6	148	1.22	22.5	
Surr: DNOP	5.7		4.980		114	72.4	120	0	0	

Sample ID	MB-6483	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6483	RunNo:	9209					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262137	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		117	72.4	120			

Sample ID	LCS-6483	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6483	RunNo:	9209					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262138	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	72.4	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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#: 1303458

20-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-7 #244M

Sample ID	1303540-004AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6483	RunNo:	9209					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262167	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		4.864		111	72.4	120			

Sample ID	1303540-004AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6483	RunNo:	9209					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262168	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		4.883		106	72.4	120	0	0	

Sample ID	1303600-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6506	RunNo:	9198					
Prep Date:	3/15/2013	Analysis Date:	3/16/2013	SeqNo:	262931	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		4.965		113	72.4	120			

Sample ID	1303600-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6506	RunNo:	9198					
Prep Date:	3/15/2013	Analysis Date:	3/16/2013	SeqNo:	262932	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		4.776		113	72.4	120	0	0	

Sample ID	MB-6506	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6506	RunNo:	9198					
Prep Date:	3/15/2013	Analysis Date:	3/16/2013	SeqNo:	262996	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		114	72.4	120			

Sample ID	LCS-6506	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6506	RunNo:	9198					
Prep Date:	3/15/2013	Analysis Date:	3/16/2013	SeqNo:	262997	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		109	72.4	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- 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#: 1303458

20-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-7 #244M

Sample ID	1303477-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6504	RunNo:	9209					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	263266	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		4.845		109	72.4	120			

Sample ID	1303477-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6504	RunNo:	9209					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	263267	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	72.4	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303458

20-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-7 #244M

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

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303458

20-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-7 #244M

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

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

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

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: 1303458
 Received by/date: AE 03/12/13
 Logged By: **Michelle Garcia** 3/12/2013 9:53:00 AM *Michelle Garcia*
 Completed By: **Michelle Garcia** 3/12/2013 11:37:24 AM *Michelle Garcia*
 Reviewed By: [Signature] 03/12/13

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° 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	1.0	Good	Yes			

