

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 ConocoPhillips Co.	Contact Bobby Spearman
Address 3401 East 30th St, Farmington, NM	Telephone No. (505)-320-3045
Facility Name: San Juan 31-6 # 208	Facility Type: Gas well

Surface Owner: BLM	Mineral Owner: Fed	API No. 300-039-24436
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	06	30N	6W	1765	South	1485	West	Rio Arriba

Latitude **36.83907**, Longitude **-10750838**

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered None
Source of Release BGT	Date and Hour of Occurrence Unknown	Date and Hour of Discovery Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*
The regulatory standard for closure at this site was determined to be 100ppm. Soil samples were 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: <i>Bobby Spearman</i>	OIL CONSERVATION DIVISION	
Printed Name: Bobby Spearman	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Specialist	Approval Date: 8/19/2016	Expiration Date:
E-mail Address: Robert.E.Spearman@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/3/2016 Phone: (505) 320-3045	NUF11623249454	

* Attach Additional Sheets If Necessary



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

December 30, 2013

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-04
5525 Hwy 64
Farmington, New Mexico 87401

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

**RE: Below Grade Tank Closure Report
San Juan 31-6 #208
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

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 31-6 #208, 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 31-6 #208

Legal Description – NE¼ SW¼, Section 6, T30N, R6W, Rio Arriba County, New Mexico

Well Latitude/Longitude – N36.83921 and W107.50819, respectively

BGT Latitude/Longitude – N36.83907 and W107.50838, respectively

Land Jurisdiction – Bureau of Reclamation (BOR)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, November 2013

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the location was given a ranking score of 10 based on the following factors:

- **Depth to Groundwater:** A well cathodic report dated February 1992 reported the depth to groundwater as greater than 100 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The tank location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash which discharges to the La Jara Canyon arm of Navajo Lake is located approximately 850 feet southeast of the location. (10 points)

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Ashcroft, CoP representative, on November 21, 2013, and on the same day, Deborah Watson and Heather Woods 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 November 21, 2013, 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;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM were each measured at 0.0 ppm. Field TPH concentrations ranged from 64.2 mg/kg in S-3 to greater than 2,500 mg/kg in S-2. The field chloride concentration in SC-1 was 60 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 31-6 #208 BGT Closure, November 2013

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)			--	100	250
S-1	11/21/13	0.5	0.0	77.6	NA
S-2	11/21/13	0.5	0.0	>2,500	NA
S-3	11/21/13	0.5	0.0	64.2	NA
S-4	11/21/13	0.5	0.0	1,240	NA
S-5	11/21/13	0.5	0.0	1,170	NA
SC-1	11/21/13	0.5	0.0	NA	60

NA - Not Analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.032 mg/kg and 0.159 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 3.2 mg/kg and less than 10.0 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 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 31-6 #208 BGT Closure, November 2013

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total 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	11/21/13	0.5	<0.032	<0.159	<3.2	<10.0	<30

NA - Not Analyzed

3.0 Conclusions and Recommendations

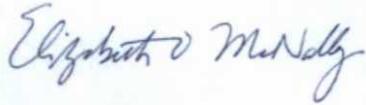
NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in three samples: S-2 (greater than 2,500 mg/kg), S-4 (1,240 mg/kg), and S-5 (1,170 mg/kg). However, laboratory analytical results 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 levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were 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 at San Juan 31-6 #208.

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

Sincerely,



David J. Reese
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, November 2013
- AES Field Screening Report 112113
- Hall Analytical Report 1311A20

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 31-6 #208\San Juan 31-6 #208 BGT Closure Report 123013.docx

NAVAJO DAM QUADRANGLE
 NEW MEXICO - RIO ARRIBA COUNTY
 1954 PHOTOREVISED 1971

GOMEZ RANCH QUADRANGLE
 NEW MEXICO - RIO ARRIBA COUNTY
 1954 PHOTOREVISED 1982

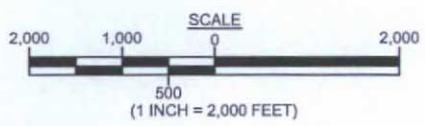
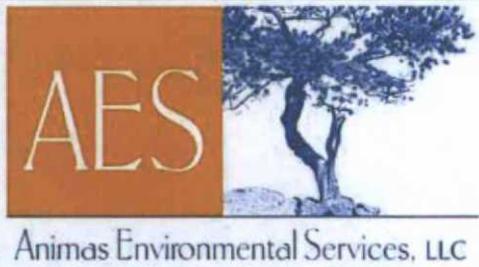


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 SAN JUAN 31-6 #208
 NE¼ SW¼, SECTION 6, T30N, R6W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.83921, W107.50819



DRAWN BY: S. Glasses	DATE DRAWN: November 22, 2013
REVISIONS BY: C. Lameman	DATE REVISED: November 22, 2013
CHECKED BY: D. Watson	DATE CHECKED: November 22, 2013
APPROVED BY: E. McNally	DATE APPROVED: November 22, 2013

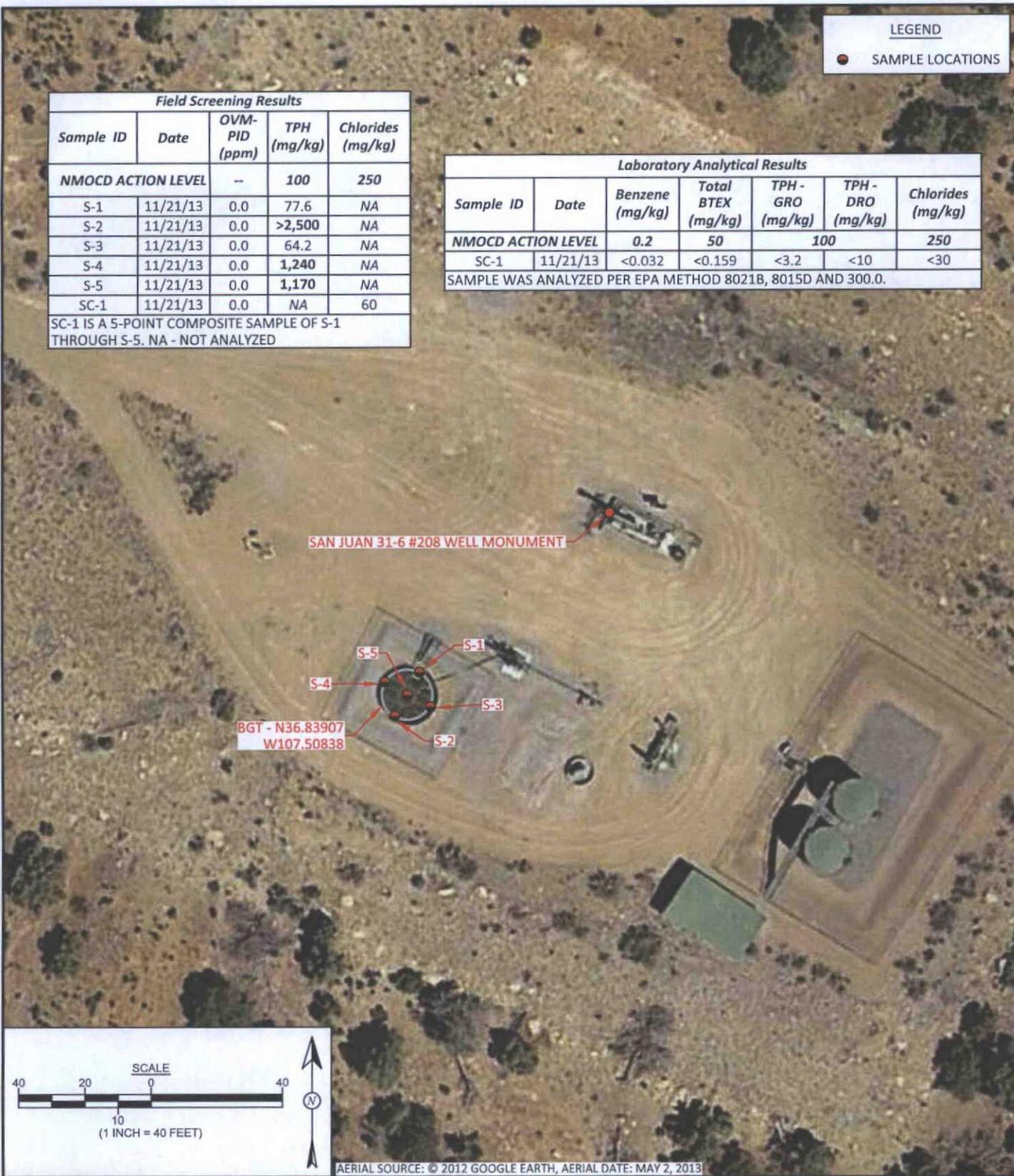
LEGEND
 **SAMPLE LOCATIONS**

Field Screening Results				
Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		--	100	250
S-1	11/21/13	0.0	77.6	NA
S-2	11/21/13	0.0	>2,500	NA
S-3	11/21/13	0.0	64.2	NA
S-4	11/21/13	0.0	1,240	NA
S-5	11/21/13	0.0	1,170	NA
SC-1	11/21/13	0.0	NA	60

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	11/21/13	<0.032	<0.159	<3.2	<10	<30

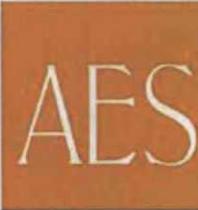
SAMPLE WAS ANALYZED PER EPA METHOD 8021B, 8015D AND 300.0.



SCALE
 40 20 0 40
 10
 (1 INCH = 40 FEET)



AERIAL SOURCE: © 2012 GOOGLE EARTH, AERIAL DATE: MAY 2, 2013

 <p>Animas Environmental Services, LLC</p>	DRAWN BY: S. Glasses	DATE DRAWN: November 22, 2013	<p>FIGURE 2</p> <p>AERIAL SITE MAP BELOW GRADE TANK CLOSURE NOVEMBER 2013 ConocoPhillips SAN JUAN 31-6 #208 NE¼ SW¼, SECTION 6, T30N, R6W RIO ARRIBA COUNTY, NEW MEXICO N36.83921, W107.50819</p>
	REVISIONS BY: C. Lameman	DATE REVISED: November 22, 2013	
	CHECKED BY: D. Watson	DATE CHECKED: November 22, 2013	
	APPROVED BY: E. McNally	DATE APPROVED: November 22, 2013	

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 31-6 #208

Date: 11/21/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVN (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	11/21/2013	14:35	North	0.0	NA	17:40	77.6	20.0	1	DAW
S-2	11/21/2013	14:38	South	0.0	NA	17:43	>2,500	20.0	1	DAW
S-3	11/21/2013	14:40	East	0.0	NA	17:46	64.2	20.0	1	DAW
S-4	11/21/2013	14:42	West	0.0	NA	17:48	1,240	20.0	1	DAW
S-5	11/21/2013	14:45	Center	0.0	NA	17:50	1,170	20.0	1	DAW
SC-1	11/21/2013	14:50	Composite	0.0	60	Not Analyzed for TPH.				

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

*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:

Debrah Water



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

November 26, 2013

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

RE: COP San Juan 31-6 #208

OrderNo.: 1311A20

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/22/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

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

Client Sample ID: SC-1

Project: COP San Juan 31-6 #208

Collection Date: 11/21/2013 2:50:00 PM

Lab ID: 1311A20-001

Matrix: MEOH (SOIL)

Received Date: 11/22/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/22/2013 1:02:22 PM	10474
Surr: DNOP	91.9	66-131		%REC	1	11/22/2013 1:02:22 PM	10474
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	11/22/2013 12:25:46 PM	R14998
Surr: BFB	92.6	74.5-129		%REC	1	11/22/2013 12:25:46 PM	R14998
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.032		mg/Kg	1	11/22/2013 12:25:46 PM	R14998
Toluene	ND	0.032		mg/Kg	1	11/22/2013 12:25:46 PM	R14998
Ethylbenzene	ND	0.032		mg/Kg	1	11/22/2013 12:25:46 PM	R14998
Xylenes, Total	ND	0.063		mg/Kg	1	11/22/2013 12:25:46 PM	R14998
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	11/22/2013 12:25:46 PM	R14998
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	30		mg/Kg	20	11/22/2013 12:55:53 PM	10486

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1311A20
 26-Nov-13

Client: Animas Environmental
Project: COP San Juan 31-6 #208

Sample ID	MB-10486	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	10486	RunNo:	15033					
Prep Date:	11/22/2013	Analysis Date:	11/22/2013	SeqNo:	434229	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-10486	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	10486	RunNo:	15033					
Prep Date:	11/22/2013	Analysis Date:	11/22/2013	SeqNo:	434230	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1311A20

26-Nov-13

Client: Animas Environmental
Project: COP San Juan 31-6 #208

Sample ID MB-10474	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 10474		RunNo: 14985							
Prep Date: 11/21/2013	Analysis Date: 11/22/2013		SeqNo: 432946		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		94.4	66	131			

Sample ID LCS-10474	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 10474		RunNo: 14985							
Prep Date: 11/21/2013	Analysis Date: 11/22/2013		SeqNo: 432958		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	62.1	127			
Surr: DNOP	5.2		5.000		104	66	131			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1311A20
 26-Nov-13

Client: Animas Environmental
Project: COP San Juan 31-6 #208

Sample ID	Ics-10465 5		SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	LCSS		Batch ID: R14998	RunNo: 14998						
Prep Date:			Analysis Date: 11/22/2013	SeqNo: 434083	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	97.3	74.5	126			
Surr: BFB	1000		1000		100	74.5	129			

Sample ID	mb-10465 7		SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS		Batch ID: R14998	RunNo: 14998						
Prep Date:			Analysis Date: 11/22/2013	SeqNo: 434084	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	920		1000		92.3	74.5	129			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1311A20
 26-Nov-13

Client: Animas Environmental
Project: COP San Juan 31-6 #208

Sample ID	ics-10465 6		SampType: LCS	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS		Batch ID: R14998	RunNo: 14998						
Prep Date:			Analysis Date: 11/22/2013	SeqNo: 434116		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.0	80	120			
Toluene	0.97	0.050	1.000	0	96.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID	mb-10465 7		SampType: MBLK	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS		Batch ID: R14998	RunNo: 14998						
Prep Date:			Analysis Date: 11/22/2013	SeqNo: 434122		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	1.1		1.000		111	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: Anlmas Environmental

Work Order Number: 1311A20

RcptNo: 1

Received by/date: MG 11/22/13

Logged By: Lindsay Mangin 11/22/2013 10:00:00 AM *Jessie Mangin*

Completed By: Lindsay Mangin 11/22/2013 10:19:31 AM *Jessie Mangin*

Reviewed By: *[Signature]* 11/22/2013

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

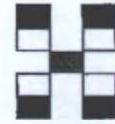
18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services LLC
 Mailing Address: 624 E Comanche Farmington NM 87401
 Phone #: 505 564 2281
 email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush Saturday
 Project Name: CoP San Juan 31-6 #208
 Project #:
 Project Manager: D Watson
 Sampler: D Watson
 On Ice: Yes No
 Sample Temperature: 7°C



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TPH (Gas only)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 chlorides	Air Bubbles (Y or N)
11-21-13	1450	soil	SC-1	Meat (1) 4oz	Meat -	1311A20 -001	X		X									X	

Date: 11/21/13 Time: 1726 Relinquished by: Deborah Watson
 Received by: Christine Walters Date: 11/21/13 Time: 1726
 Date: 11/21/13 Time: 1750 Relinquished by: Christine Walters
 Received by: Michael Date: 11/22/13 Time: 1000

Remarks:
 Bill to ConocoPhillips
 WO: 10352526
 Act. Code: C200
 Area: 28
 User ID: super
 WO: Bruce Ashcroft

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.