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

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

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

Release Notification and Corrective Action

Form C-141

Revised August 8, 2011

		OPERA	ГOR		Initi	☐ Initial Report ☐ Fin						
Name of Company Burlington Resources, a Wholly Owner	d (Contact Lisa Hunter										
Subsidiary of ConocoPhillips Company		Talanhana No. (505) 326 0786										
Address 3401 East 30 th St, Farmington, NM Facility Name: San Juan 28-4 Unit 30		Telephone No. (505) 326-9786 Facility Type: Gas Well										
Surface Owner USFS Mineral Ow	ner	BLM			API No	.30039200	78					
LOCAT	TION	ON OF RELEASE										
1 6		South Line	Feet from the		West Line	County						
G 31 28N 04W 1565	N	orth	1830		East	Rio Arrib	a					
Latitude <u>36.61924</u> Longitude <u>-107.28871</u>												
NATURE OF RELEASE												
Type of Release Historic Hydrocarbon			Release Unkno	own	Volume I	Recovered	N/A					
Source of Release Below Grade Tank			Iour of Occurrence	ee		Hour of Dis	covery					
Was Immediate Notice Given?		If YES, To	Whom?		Novemb	er 12, 2013						
Yes No Not Requ	uired	N/A	Wiloin.		/	DIE	pan p n					
By Whom? N/A		Date and I	Iour N/A			El has been	LIV	L				
Was a Watercourse Reached?		If YES, Volume Impacting the Watercourse.										
☐ Yes ⊠ No		FFR 1 9 2005										
If a Watercourse was Impacted, Describe Fully.*							1 2 6					
N/A						BIRA	000	· j				
Describe Cause of Problem and Remedial Action Taken.*					1	Diagram	1000	1				
Evidence of a historic release was discovered during a Below Gr	ade T	ank closure.	Third-party en	vironm	ental was	call to samp	de and	assess.				
							-	and the same of th				
Describe Area Affected and Cleanup Action Taken.*												
Release assessment was completed by third-party environmenta further action required. The soil sampling report is attached for						gulatory sta	ndards	- no				
I hereby certify that the information given above is true and complet												
regulations all operators are required to report and/or file certain relepublic health or the environment. The acceptance of a C-141 report												
should their operations have failed to adequately investigate and rem	nediate	contaminati	on that pose a thr	eat to g	round water	r, surface wa	ater, hui	man health				
or the environment. In addition, NMOCD acceptance of a C-141 representation federal, state, or local laws and/or regulations.	port do	es not reliev	e the operator of	respons	ibility for c	ompliance v	vith any	other				
rederin, state, or focal laws and/or regulations.			OIL CON	SERV	ATION	DIVISIO)N /					
Simon John HA					//							
Signature:		Anneavad hy	Environmental S	nagialia	. / for	ma/		14				
Printed Name: Lisa Hunter	1	approved by	Environmental 3	pecialis		8	M					
			11/2/ =		/	/)						
Title: Field Environmental Specialist	Approval Date: 4/13//5 Expiration Date:											
E-mail Address: Lisa.Hunter@cop.com		Conditions of	f Approval:		Attached D							
						Attached						
Date: February 9, 2015 Phone: (505) 326-9786 Attach Additional Sheets If Necessary		,										

HAXS 1510348739





December 30, 2013

Lindsay Dumas ConocoPhillips San Juan Business Unit Office 214-07 5525 Hwy 64 Farmington, New Mexico 87401 www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

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

RE: Below Grade Tank Closure Report

San Juan 28-4 #30

Rio Arriba County, New Mexico

Dear Ms. Dumas:

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 28-4 #30, 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 28-4 #30

Legal Description - SW¼ NE¼, Section 31, T28N, R4W, Rio Arriba County, New Mexico Well Latitude/Longitude - N36.61941 and W107.28889, respectively BGT Latitude/Longitude - N36.61926 and W107.28866, respectively Land Jurisdiction - U.S. Forest Service (USFS)

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 0 based on the following factors:

- **Depth to Groundwater:** Based on the elevation differential between the location and the nearest surface water, AES personnel estimated that depth groundwater is greater than 100 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The location is not within a wellhead protection area.
 (0 points)
- Distance to Surface Water Body: An unnamed wash which discharges to the wash in Muñoz Canyon and ultimately to the San Juan River is located approximately 1,650 feet west of the location. (0 points)

1.3 BGT Closure Assessment

AES was initially contacted by Fred Martinez, CoP representative, on November 12, 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 12, 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 ranged from 1.0 ppm in S-4 up to 7.2 ppm in S-5. Field TPH concentrations ranged from 92.7 mg/kg in S-3 up to 587 mg/kg in S-5. 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 28-4 #30 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	11/12/13	0.5	1.6	156	NA
S-2	11/12/13	0.5	2.7	132	NA
S-3	11/12/13	0.5	1.7	92.7	NA
S-4	11/12/13	0.5	1.0	228	NA
S-5	11/12/13	0.5	7.2	587	NA
SC-1	11/12/13	0.5	3.8	NA	60

NA - Not Analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 5.0 mg/kg and at 110 mg/kg, respectively. The laboratory chloride concentration was reported at 31 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical report is attached.

Table 2. Soil Laboratory Analytical Results San Juan 28-4 #30 BGT Closure, November 2013

				Total	ТРН-	ТРН-					
Sample	Date	Depth	Benzene	BTEX	GRO	DRO	Chlorides				
ID	Sampled	(ft) (mg/kg) (mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)					
	NMOCD Acti	on Level	0.2/10*	50	100/	100/5,000*					
(NMAC 19.15.17.13E)			0.2/10	50	100/3	,000	250				
SC-1	11/12/13	0.5	< 0.50	<2.5	<5.0	110	31				

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

3.0 Conclusions and Recommendations

3.1 BGT Closure

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, with the highest concentration reported in S-5 with 587 mg/kg. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported above the NMOCD action level of 100 mg/kg with 110 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 on November 12, 2013, a release is confirmed at the San Juan 28-4 #30.

3.2 Release Confirmation

Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 0. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. TPH concentrations as GRO/DRO in SC-1 were reported below the NMOCD action level of 5,000 mg/kg. Soil laboratory analyses showed that benzene, total BTEX, TPH and chloride concentrations were below the NMOCD action levels for SC-1. Release notification should follow the

Lindsay Dumas San Juan 28-4 #30 BGT Closure Report December 30, 2013 Page 5 of 5

protocols outlined in NMAC 19.15.29 and 30. No further work is recommended for the San Juan 28-4 #30 BGT release.

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 V MeNelly

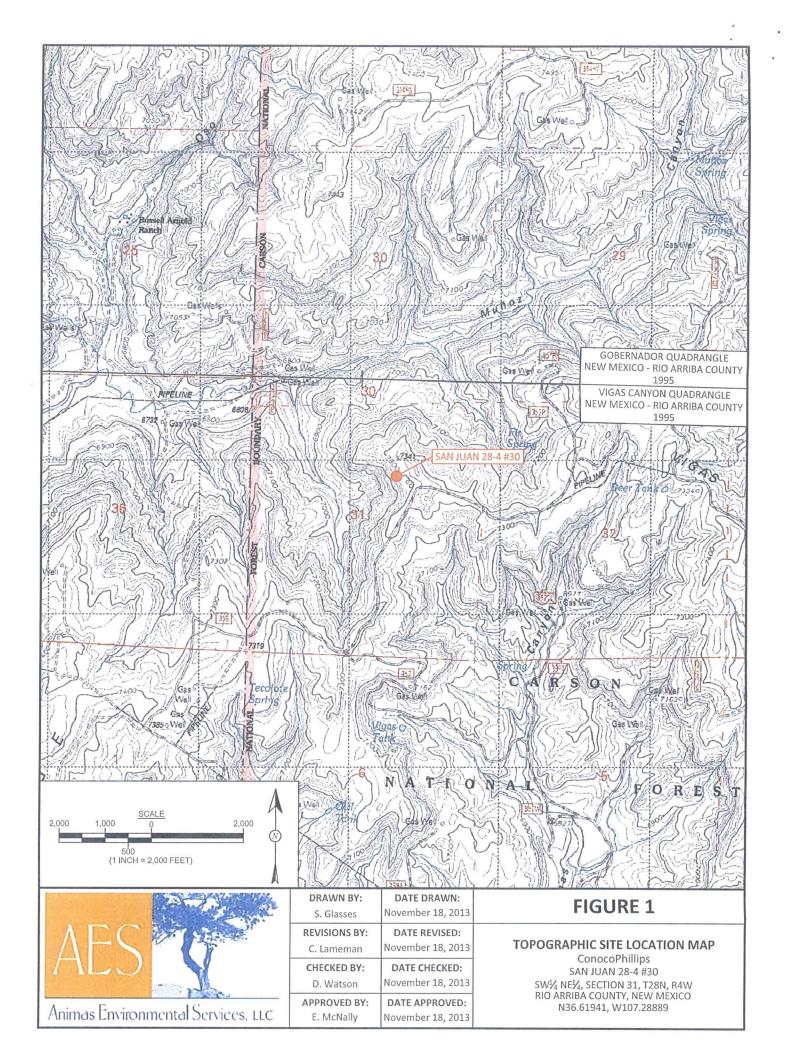
Dail g Rem

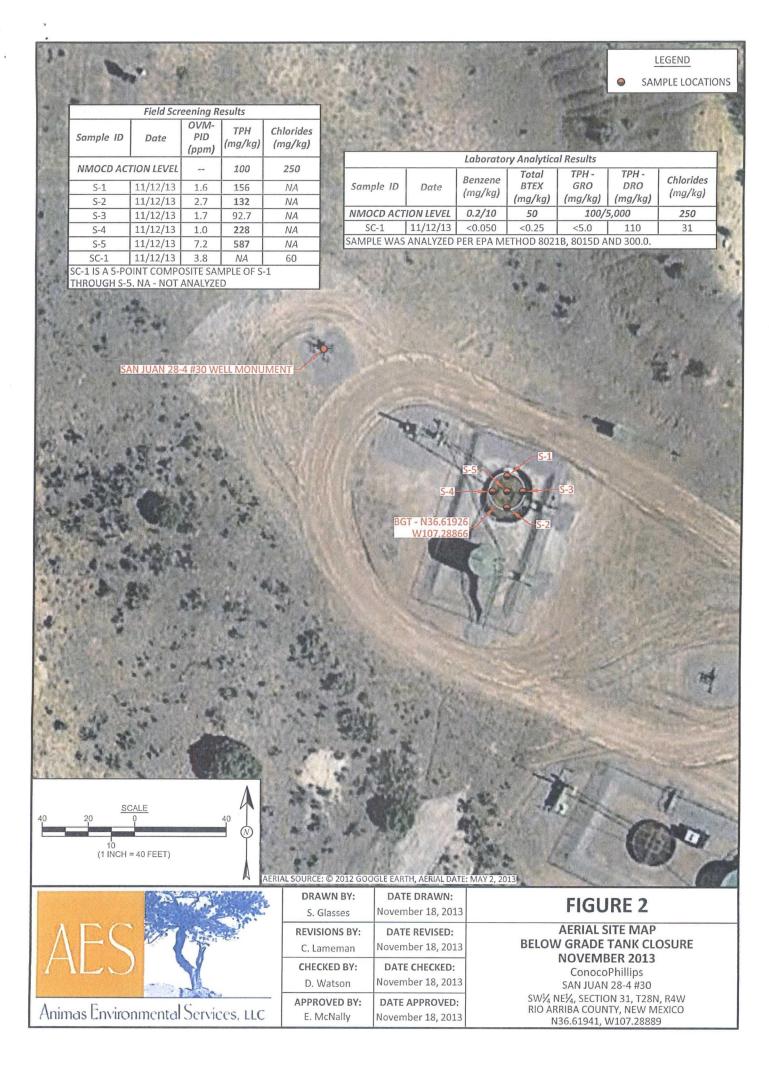
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, November 2013 AES Field Screening Report 111213 Hall Analytical Report 1311503

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 28-4 #30\San Juan 28-4 #30 BGT Closure Report 123013.docx







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

OrderNo.: 1311503

November 15, 2013

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

FAX

RE: CoP San Juan 28-4 #30

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/13/2013 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 qualifers 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,

Andy Freeman

Laboratory Manager

andid

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1311503

Date Reported: 11/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP San Juan 28-4 #30

Lab ID: 1311503-001

Client Sample ID: SC-1

Collection Date: 11/12/2013 3:20:00 PM

Received Date: 11/13/2013 9:47:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Anal	yst: BCN
Diesel Range Organics (DRO)	110	9.9	mg/Kg	1	11/13/2013 12:07:19	PM 10315
Surr: DNOP	96.3	66-131	%REC	1	11/13/2013 12:07:19	PM 10315
EPA METHOD 8015D: GASOLINE RAN	GE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/13/2013 12:29:45	PM R14768
Surr: BFB	103	74.5-129	%REC	1	11/13/2013 12:29:45	PM R14768
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.050	mg/Kg	1	11/13/2013 12:29:45	PM R14768
Toluene	ND	0.050	mg/Kg	1	11/13/2013 12:29:45	PM R14768
Ethylbenzene	ND	0.050	mg/Kg	1	11/13/2013 12:29:45	PM R14768
Xylenes, Total	ND	0.10	mg/Kg	1	11/13/2013 12:29:45	PM R14768
Surr: 4-Bromofluorobenzene	114	80-120	%REC	1	11/13/2013 12:29:45	PM R14768
EPA METHOD 300.0: ANIONS					Analy	yst: JRR
Chloride	31	30	mg/Kg	20	11/13/2013 12:30:15	PM 10324

Matrix: SOIL

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

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 Page 1
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1311503

15-Nov-13

Client:

Animas Environmental

Project:

CoP San Juan 28-4 #30

Sample ID MB-10324

SampType: MBLK

Analysis Date: 11/13/2013

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 10324

RunNo: 14791 SeqNo: 426109

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

Prep Date:

Result PQL ND 1.5

Sample ID LCS-10324

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date: 11/13/2013

Batch ID: 10324 Analysis Date: 11/13/2013 RunNo: 14791

Units: mg/Kg

SeqNo: 426111

HighLimit

RPDLimit Qual

PQL 1.5 SPK value SPK Ref Val %REC 15.00

0

SPK value SPK Ref Val %REC LowLimit

90

Chloride

Analyte

11/13/2013

14

91.3

110

Oualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only. P

Reporting Detection Limit

Page 2 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1311503

15-Nov-13

Client:

Animas Environmental

Project:

CoP San Juan 28-4 #30

Sample ID MB-10315 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PBS Batch ID: 10315 RunNo: 14753 Prep Date: 11/13/2013 Analysis Date: 11/13/2013 SeqNo: 424980 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 8.6 10.00 85.9 66 131

Sample ID LCS-10315	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015D: Diesel Range Organics											
Client ID: LCSS	Batch	ID: 10	315	F	RunNo: 14753											
Prep Date: 11/13/2013	Analysis D	Analysis Date: 11/13/2013				25003	Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Diesel Range Organics (DRO)	39	10	50.00	0	78.9	62.1	127									
Surr: DNOP	4.3		5.000		85.7	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

Page 3 of 5

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1311503

15-Nov-13

Client:

Animas Environmental

Project:

CoP San Juan 28-4 #30

Sample ID MB-10303 MK

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: R14768

RunNo: 14768

Prep Date:

Analysis Date: 11/13/2013

SeqNo: 425628

Units: mg/Kg

RPDLimit

Qual

Analyte Gasoline Range Organics (GRO) Result

PQL SPK value SPK Ref Val 5.0

%REC

HighLimit

Surr: BFB

ND 910

1000

91.5

129

Sample ID LCS-10303 MK

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

74.5

%RPD

Client ID: LCSS

Batch ID: R14768 Analysis Date: 11/13/2013

0

RunNo: 14768 SeqNo: 425629

Units: mg/Kg

%RPD

Analyte

Prep Date:

Gasoline Range Organics (GRO)

Result PQL 25 5.0

SPK value SPK Ref Val 25.00

1000

1000

%REC 102

LowLimit 74.5 74.5

HighLimit 126 129 **RPDLimit**

Qual

Surr: BFB

Sample ID MB-10303 PBS

SampType: MBLK Batch ID: 10303

TestCode: EPA Method 8015D: Gasoline Range RunNo: 14768

96.9

74.5

Analysis Date: 11/13/2013

SeqNo: 425633

Units: %REC

129

Analyte Surr: BFB

Client ID:

Prep Date:

Client ID:

11/12/2013

Result

910

970

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-10303

LCSS

Prep Date: 11/12/2013

SampType: LCS

Batch ID: 10303

PQL

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 14768

91.5

Units: %REC

Qual

Analyte Surr: BFB Result

Analysis Date: 11/13/2013

SeqNo: 425634

LowLimit HighLimit

%RPD

RPDLimit

970

SPK value SPK Ref Val 1000

%REC 96.9

74.5

129

Qualifiers:

E

- Value exceeds Maximum Contaminant Level
- J Analyte detected below quantitation limits 0
- RSD is greater than RSDlimit RPD outside accepted recovery limits

Value above quantitation range

- Spike Recovery outside accepted recovery limits
- 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.
- Reporting Detection Limit

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1311503

15-Nov-13

Client:

Animas Environmental

Project:	CoP San	Juan 28-4	#30											
Sample ID MB-	-10303 MK	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID: PBS	3	Batc	h ID: R1	4768	F	RunNo: 1	4768							
Prep Date:		Analysis [Date: 1'	1/13/2013		SeqNo: 4	25652	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-Bromofluor	obenzene	1.1		1.000		109	80	120						
Sample ID LCS	-10303 MK	Samp	ype: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCS	S	Batcl	n ID: R1	4768	F	RunNo: 1								
Prep Date:		Analysis Date: 11/13/2013			5	SeqNo: 4	25653	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.97	0.050	1.000	0	97.2	80	120						
Toluene		1.0	0.050	1.000	0	99.9	80	120						
Ethylbenzene		1.0	0.050	1.000	0	101	80	120						
Xylenes, Total		3.1	0.10	3.000	0	102	80	120						
Surr: 4-Bromofluoro	obenzene	1.2		1.000		115	80	120						
Sample ID MB-	10303	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles					
Client ID: PBS		Batch	ID: 10 3	303	R	RunNo: 14	1768							
Prep Date: 11/	12/2013	Analysis D	ate: 11	/13/2013	S	SeqNo: 42	25656	Units: %RE	С					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: 4-Bromofluoro	obenzene	1.1		1.000		109	80	120						
Sample ID LCS	-10303	SampT	ype: LC:	S	Test	Code: EF	A Method	8021B: Volat	iles					
Client ID: LCS	S	Batch	ID: 103	303	R	RunNo: 14768					2			
Prep Date: 11/	12/2013	Analysis D	ate: 11	/13/2013	S	eqNo: 42	25657	Units: %RE0	0					

SPK value SPK Ref Val %REC

1.000

Qualifiers:

Analyte

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level.

Result

1.2

- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded

LowLimit

115

HighLimit

120

%RPD

RPDLimit

Qual

- Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

		ork Order Numbe	1. 1311	503		RcptNo: 1								
Received by/date:	Ab 11/13/1	>												
Logged By: Anne Thor	ne 11/13	3/2013 9:47:00 A	M		anne It									
Completed By: Anne Thor	ne 11/13	/2013			ann Ha									
Reviewed By:) ///	13/13			Olara Jara									
Chain of Custody							, , ,							
1. Custody seals intact on sa	ample bottles?		Yes		No 🗆	Not Present								
2. Is Chain of Custody comp	lete?		Yes	\checkmark	No 🗌	Not Present								
3. How was the sample deliv	rered?		Cour	rier										
Log In														
4. Was an attempt made to	cool the samples?		Yes	✓	No 🗌	NA 🗔								
5. Were all samples received	d at a temperature of >0	° C to 6.0°C	Yes	\checkmark	No 🗆	NA 🗆								
6. Sample(s) in proper conta	liner(s)?		Yes	✓	No 🗌									
7. Sufficient sample volume	for indicated test(s)?		Yes	✓	No 🗆									
8. Are samples (except VOA	and ONG) properly pres	erved?	Yes	V	No 🗌									
9. Was preservative added to	bottles?		Yes		No 🗹	NA 🗆								
10.VOA vials have zero head	space?		Yes		No 🗌	No VOA Vials								
11. Were any sample contain	ers received broken?		Yes		No 🗹	# of preserved								
40					\Box	bottles checked								
 Does paperwork match bo (Note discrepancies on ch 			Yes	\checkmark	No 🗆	for pH: (<2 c	or >12 unless noted)							
13. Are matrices correctly iden		dy?	Yes	V	No 🗌	Adjusted?								
14. Is it clear what analyses w	ere requested?		Yes	V	No 🗌									
15. Were all holding times able (If no, notify customer for a			Yes	\checkmark	No 🗌	Checked by:								
(ii iio, iioii) cuotoiioi ioi i	,													
Special Handling (if app	olicable)													
16. Was client notified of all di	screpancies with this ord	er?	Yes		No \square	NA 🗹								
Person Notified:		Date			-]							
By Whom:	4	Via:	eMa	il 🔲 P	hone Fax	In Person								
Regarding:														
Client Instructions:	AND SECURITIONS OF THE PROPERTY OF THE PROPERT	Marin	-4.000000000000000000000000000000000000	With the American		CONTRACTOR AND								
17. Additional remarks:														
18. Cooler Information	The manager of the second of the		and the state of t	SCHWILLEN		91								
Cooler No. Temp °C.	Condition Seaf Inta Good Yes	ct Seal No	Seal Da	te	Signed By									

Chain-of-Custody Record			Turn-Around Time:				HALL ENVIRONMENTAL															
Client:	Anin	ras En	vivonmental	☐ Standard	Rush	Samed	ay		271.03		A	N	AL	YS	IS	L	AE	30		TO		,
	service	es ll		- 4 5		,, 4	-	www.hallenvironmental.com														
Mailing	Address	624	E Comanche	Project Name: CoP SanJuan 28-4 #30				4901 Hawkins NE - Albuquerque, NM 87109														
Far	mine	lon /	UM 87401	Project #:				Tel. 505-345-3975 Fax 505-345-4107														
Phone #	1: 50	5 56	228										A	naly	sis I	Requ	uest					
email or				Project Mana	ger:				[<u>y</u>	0	T	T			(4)							
QA/QC F		***************************************)21)	ou	MR					SC,	B's						
Stan	_		☐ Level 4 (Full Validation)	Dh	Datson			(8021)	Gas	10			SIMS)		204	PC						
Accredi				Sampler: D Watson) H	(R)			_		02,1	382			3			
□ NEL		□ Othe	r	On Icer De Yes De No 447				-	1	0	8.1	4.1	827		3,N	/ 8(B	Chloudes			Z
□ EDD (Type)			jejálulre;			1	黑	GR	141	d 5(ō	als	S,	des		0	3			2		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		i No	BTEX +	BTEX + MTBE + TPH (Gas only)	TPH 8015B(GRO) (DRO) MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 C			Air Bubbles (Y or N)
1,12,12	1500	c 1	Sc-1	HeoH Keck	Meo!			X		X									X	\neg	1	+
1-12-13	1520	2011	30-1	10 Aoy			-00	1		N	-	-	-	-	-				1	-	+	+
								_			_	_					_				_	+
																						T
	<u> </u>							-			_	-	-							-	-	+
								-	-		_	-	-	_	_			_		-	-	+
								_				_	_									+
																						+
		-						+	-			\dashv		_		-	-		\vdash			+
Date:	Time:	Relinquish	ed by:	Received by:	<u> </u>	Date	Time	Po	mark	6.	Dali		0		13.1	(1)						
11/13/13	625	Delv	ich Water		Walter	11/13/13		Remarks: Bill to Convoo Pullips 600:10353366 Super: Mich Fenari Area: 24 User: Bevale 7 Act Code Cloo ordered by: Freddie Martinery														
Date:	Time:	Relinquish	ed by:	Received by:	. 1	Date	Time	A	cea!	24			U	wi	B	eval	le	1.2		[٠	
13/13	645	Mi	tuhalle		2 nl	3 13	0947	A	ct C	rde	C2	00	1	ord	oved	by	: P	redd	re r	rarr	nery	1
. 1	f necessary	samples sub	mitted to Hall Environmental may be sub	contracted to other a	ccredited laboratorie	es. This serve:	s as notice of thi	is poss	ibility.	Any su	np-cou	racted	d data	will be	e clear	ly note	ated o	n the a	analytic	al repor	t.	