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State of New Mexico Energy Minerals and Natural Resources

> 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.

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Release Notifica	<b>Release Notification and Corrective Action</b>											
	OPERATOR	Initial Report I Final Report										
Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya											
Address 3401 East 30 <sup>th</sup> St, Farmington, NM	Telephone No.(505) 326-9837											
Facility Name: San Juan 30-6 Unit 446	Facility Type: Gas Well											
Surface Owner <b>BLM</b> Mineral Ow	/ner BLM (NM-04139)	API No. <b>30-039-24590</b>										
LOCAT	FION OF RELEASE	· · · · · · · · · · · · · · · · · · ·										
Unit Letter Section Township Range Feet from the	North/South Line Feet from the F	ast/West Line County										
N     35     30N     6W     1295	South 1630	West     Rio Arriba										
Latitude <u>36.</u>	.7653 Longitude <u>107.43531</u>											
NATI	IRE OF RELEASE											
Type of Release Produced Water	Volume of Release 5.57 bbls	s Volume Recovered 2 bbls										
Source of Release Wellhead	Date and Hour of Occurrence	Date and Hour of Discovery										
	Unknown	11/5/12 at 8:00 am										
Was Immediate Notice Given?	If YES, To Whom?											
	uired											
By Whom?	Date and Hour											
Was a Watercourse Reached?	If YES, Volume Impacting the	RCVD JUL 26 '13										
If a Watercourse was Impacted, Describe Fully.*	······································											
N/A		UIL COND. DIV.										
		DIST. 3										
Describe Area Affected and Cleanup Action Taken.* NMOCD action levels for releases are specified in NMOCD's Gu score of 10. Samples were collected and analytical results are be final report is attached for review.	nto soil. Water truck was contacted t uidelines for Leaks, Spills and Release slow applicable NMOCD action levels.	to pull standing water and treatment will be . s and the release was assigned a ranking . No further work will be performed. The										
I hereby certify that the information given above is true and complet regulations all operators are required to report and/or file certain rele public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and rem or the environment. In addition, NMOCD acceptance of a C-141 rep federal, state, or local laws and/or regulations.	te to the best of my knowledge and unde ease notifications and perform corrective by the NMOCD marked as "Final Repo nediate contamination that pose a threat port does not relieve the operator of resp	erstand that pursuant to NMOCD rules and e actions for releases which may endanger ort" does not relieve the operator of liability to ground water, surface water, human health ponsibility for compliance with any other										
e e e	<u>OIL CONSE</u>	RVATION DIVISION										
Signature:												
Drinted Nemes, Counted Televis	Approved by Environmental Speci	ialist: Yorvett, Kely										
rinneu Name: Crystal Latoya												
Title: Field Environmental Specialist	Approval Date: 8/16/2013	Expiration Date:										
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached										
Date: 7/25/2013 Phone: (505) 326-9837												

\* Attach Additional Sheets If Necessary

NJK1328839209



Animas Environmental Services, LLC

July 23, 2013

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

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

Via electronic mail to: <u>SJBUE-Team@ConocoPhillips.com</u>

## RE: Produced Water Release Report San Juan 30-6 #446 Rio Arriba County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the approximately 5.6 barrel (bbl) produced water release at the ConocoPhillips (CoP) San Juan 30-6 #446, located in Rio Arriba County, New Mexico. The release from the well head was due to a packing failure.

## 1.0 Site Information

## 1.1 Location

Site Name – San Juan 30-6 #446 Legal Description – SE¼ SW¼, Section 35, T30N, R6W, Rio Arriba County, New Mexico Well/Release Latitude/Longitude – N36.76547 and W107.43576, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, June 2013

## 1.2 NMOCD Ranking

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the initial assessment. The release was given a ranking score of 10 based on the following factors:

- Depth to Groundwater: Based on a Cathodic Protection Report dated May 1991 for the San Juan 30-6 #446, depth to groundwater at the site is greater than 100 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: A stock pond is located approximately 980 feet northeast of the location. (10 points)

## 1.3 Confirmation Sampling

AES was contacted by Crystal Tafoya, CoP representative, on June 24, 2013, and on June 28, 2013, Heather Woods of AES completed the field work. Confirmation sampling included the collection of one 5-point composite soil sample following removal of impacted soil from the location. Sample locations are shown on Figure 2.

## 2.0 Soil Sampling

On June 28, 2013, AES personnel collected one 5-point composite soil sample (SC-1) at approximately 0.25 feet bgs from around the well head. Soil sample SC-1 was submitted for confirmation laboratory analysis.

## 2.1 Laboratory Analyses

The composite soil sample 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;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

## 2.2 Laboratory Analytical Results

Laboratory analytical results reported the benzene concentration in SC-1 as less than 0.047 mg/kg, and total BTEX was reported as less than 0.234 mg/kg. TPH concentrations were reported as less than 4.7 mg/kg GRO and less than 9.9 mg/kg DRO. The laboratory chloride concentration was reported at 210 mg/kg. Laboratory analytical

results are summarized in Table 1 and included on Figure 2. The laboratory analytical report is attached.

	San Juan 30	D-6 #446 P	roduced Wat	er Release,	June 2013		
Sample ID	Date Sampled	Depth	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMO	OCD Action Level*		10	50	1,0	000	
SC-1	6/28/13	0.25	<0.047	<0.234	<4.7	<9.9	210

Table 1.	Soil Laboratory Analytical Results	
n Juan 30-6 ‡	446 Produced Water Release. June 2	201

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

## 3.0 Conclusions and Recommendations

On June 28, 2013, AES conducted confirmation sampling of a produced water release at the San Juan 30-6 #446. Action levels for releases are determined by the NMOCD ranking score per NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking score of 10. Laboratory analytical results from composite sample SC-1 reported benzene, total BTEX, and TPH as GRO/DRO below NMOCD action levels. The chloride concentration in SC-1 was 210 mg/kg. No further work is recommended at the San Juan 30-6 #446 produced water release location.

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

Sincerely,

Bandres R. Cupps

Landrea Cupps Environmental Scientist

Elizabeth V MiNoly

Elizabeth McNally, P.E.

Crystal Tafoya San Juan 30-6 #446 Produced Water Release Report July 23, 2013 Page 4 of 4

Attachments:

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Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, June 2013 Hall Analytical Report 1307016

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		Sample ID	Date	Benzene (mg/kg)	Total BTEX (ma/ka)	TPH - GRO (ma/ka)	TPH - DRO (ma/ka)	Chlorides (mg/kg)		
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Drawn BY:   Date Drawn:   FIGURE 2     Date Drawn:   July 22, 2013   FIGURE 2     C. Lameman   July 22, 2013   FIGURE 2     Revisions BY:   Date Revised:   AERIAL SITE MAP AND     C. Lameman   July 22, 2013   Sample Locations and Results     July 22, 2013   C. Lameman   July 22, 2013     Revisions BY:   Date Revised:   AERIAL SITE MAP AND     C. Lameman   July 22, 2013   Sample Locations and Results     July 22, 2013   ConocoPhillips   D. Watson     July 22, 2013   San JUAN 30-6 #446   SE½ SW½, SECTION 35, T30N, R6W     Rio ARRIBA COUNTY, NEW MEXICO   Huk 23, 2013   Rio ARRIBA COUNTY, NEW MEXICO	(1 INCH	= 40 FEET)								
DRAWN BY:   DATE DRAWN:     July 22, 2013   FIGURE 2     ALE DRAWN BY:   July 22, 2013     C. Lameman   July 22, 2013     REVISIONS BY:   DATE REVISED:     July 22, 2013   AERIAL SITE MAP AND     SAMPLE LOCATIONS AND RESULTS   JUNE 2013     C. Lameman   July 22, 2013     ConocoPhillips   SAN JUAN 30-6 #446     SEX SWX, SECTION 35, T30N, R6W     RIO ARRIBA COUNTY, NEW MEXICO					SOURCE: © 20	013 MICROS	OFT CORPORAT	ION - AVAILA	BLE EXCLUSIVELY BY DIGIT	ALGLOBE
C. Lameman   July 22, 2013   FIGURE 2     Animas Environmental Services HC   C. Lameman   July 22, 2013   AERIAL SITE MAP AND SAMPLE LOCATIONS AND RESULTS JUNE 2013     Animas Environmental Services HC   APPROVED BY: E MANDAIN   DATE APPROVED: Luly 22, 2013   Sample Locations and Results JUNE 2013	1243 - LEAR - J	No Sa	YWAR	19. j.	DRAWN	BY:	DATE DRAW	N:	ГІЛІ	IDE 7
Revisions BY:   DATE REviseD:   AERIAL SITE MAP AND     July 22, 2013   July 22, 2013   JUNE 2013     Checked BY:   DATE CHECKED:   JUNE 2013     Checked BY:   DATE CHECKED:   ConocoPhillips     July 22, 2013   JUNE 2013   ConocoPhillips     Animas Environmental Services 11 C   Environmental Services 11 C   Date Approved:					C. Lamen	nan	July 22, 201	.3	FIG	
C. Lameman   July 22, 2013   SAMPLE LOCATIONS AND RESULTS     JUNE 2013   JUNE 2013   JUNE 2013     Checked By:   DATE CHECKED:   JUly 22, 2013     JUNE 2013   ConocoPhillips     SAMIPLE LOCATIONS AND RESULTS   JUNE 2013     Checked By:   DATE CHECKED:     JUNE 2013   SAMIPLE LOCATIONS AND RESULTS     SAMIPLE LOCATIONS AND RESULTS   JUNE 2013     ConocoPhillips   SAN JUAN 30-6 #446     SE¼ SW¼, SECTION 35, T30N, R6W   RIO ARRIBA COUNTY, NEW MEXICO	EARC	176		τ [	REVISIONS	SBY:	DATE REVISE	D:	AERIAL SI	
CHECKED BY: DATE CHECKED: ConocoPhillips   D. Watson July 22, 2013 SAN JUAN 30-6 #446   Approved BY: DATE APPROVED: SE¼ SW¼, SECTION 35, T30N, R6W   RIO ARRIBA COUNTY, NEW MEXICO Huky 23, 2013 RIO ARRIBA COUNTY, NEW MEXICO			T		C. Lamer	nan	July 22, 201	.3	SAIVIPLE LOCATI	UNS AND RESULTS
D. Watson     July 22, 2013     SAN JUAN 30-6 #446       Animas Environmental Services 11 C     E. MANDIN     Intra 23, 2013     SAN JUAN 30-6 #446	1/ WLn	21 🔍	h		CHECKED	BY:	DATE CHECK	ED:	Conoc	oPhillips
Apimas Environmental Services LLC E Menally Luke 22 2012 RIO ARRIBA COUNTY, NEW MEXICO		N See as		F	D. Watso	on	July 22, 201	.3	SAN JUAI	N 30-6 #446
	Animas Enviro	nmental <sup>C</sup>	Nervices			) BY: D	DATE APPROV	/ED:   3	RIO ARRIBA COU	NTY, NEW MEXICO

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

July 05, 2013

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

RE: CoP San Juan 30-6 #446

OrderNo.: 1307016

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/29/2013 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 <u>www.hallenvironmental.com</u> 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,

andif

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 1307016

Date Reported: 7/5/2013

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental

1307016-001

Project:

Lab ID:

#### Client Sample ID: SC-1 CoP San Juan 30-6 #446 Collection Date: 6/28/2013 11:05:00 AM Received Date: 6/29/2013 10:00:00 AM Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/3/2013 11:19:22 AM	8196
Surr: DNOP	120	63-147	%REC	1	7/3/2013 11:19:22 AM	8196
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/2/2013 12:33:21 PM	8182
Surr: BFB	90.1	80-120	%REC	1	7/2/2013 12:33:21 PM	8182
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	7/2/2013 12:33:21 PM	8182
Toluene	ND	0.047	mg/Kg	1	7/2/2013 12:33:21 PM	8182
Ethylbenzene	ND	0.047	mg/Kg	1	7/2/2013 12:33:21 PM	8182
Xylenes, Total	ND	0.093	mg/Kg	1	7/2/2013 12:33:21 PM	8182
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	7/2/2013 12:33:21 PM	8182
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	210	30	mg/Kg	20	7/3/2013 1:00:52 PM	8229

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

\* Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit Not Detected at the Reporting Limit Page 1 of 5 Sample pH greater than 2 for VOA and TOC only.
- Р
- RL Reporting Detection Limit

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Anin CoP	nas Environmental San Juan 30-6 #446									
Sample ID	MB-8229	SampType: N	IBLK	Test	Code: EF	PA Method	300.0: Anion	s			-
Client ID:	PBS	Batch ID: 8	229	R	unNo: <b>11</b>	1735					
Prep Date:	7/3/2013	S	eqNo: 33	33334	Units: mg/K	۲g					
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND 1.5	5								
Sample ID	LCS-8229	SampType: L	cs	Test	Code: EF	PA Method	300.0: Anion	s			_
Client ID:	LCSS	229	R	unNo: <b>11</b>	735						

Prep Date:	7/3/2013	Analysis D	ate: 7/	3/2013	S	SeqNo: 3	33335 -	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	Ο	93.4	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

- 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 2 of 5

WO#: 1307016 05-Jul-13

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1307016

05-Jul-13

Client:	Animas E	Environmenta	al								
Project:	CoP San	Juan 30-6 #4	446								
Sample ID	MB-8196	SampTyp	be: MB	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	PBS	Batch II	D: 81	96	F	RunNo: <b>1</b>	1717				
Prep Date:	7/2/2013	Analysis Dat	ie: <b>7</b> /	3/2013	S	SeqNo: 3	32961	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP	•	14		10.00		143	63	147			
Sample ID	LCS-8196	SampTyp	be: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Drganics	
Client ID:	LCSS	Batch II	D: 81	96	F	RunNo: <b>1</b>	1717				
Prep Date:	7/2/2013	Analysis Dat	:e: <b>7</b> /	3/2013	S	SeqNo: 3	32962	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	47	10	50.00	0	93.7	77.1	128			
Surr: DNOP	• .	5.3		5.000		106	63	147			
Sample ID	1307016-001AMS	SampTyp	De: MS	6	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	SC-1	Batch II	D: 81	96	F	RunNo: 1	1717				
Prep Date:	7/2/2013	Analysis Dat	.e: 7/	3/2013	S	SeqNo: 3	33152	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	44	10	49.85	9.735	69.6	61.3	138			
Surr: DNOP	•	5.3		4.985		106	63	147			
Sample ID	1307016-001AMSI	<b>)</b> SampTyp	e: MS	SD	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	SC-1	Batch II	D: 81	96	F	RunNo: 1	1717				
Prep Date:	7/2/2013	Analysis Dat	:e: 7/	3/2013	S	SeqNo: 3	33164	Units: mg/M	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	57	9.9	49.65	9.735	96.0	61.3	138	25.5	20	R
Surr: DNOP	)	5.4		4.965		108	63	147	0	0	

#### 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

- 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

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

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WO#: 1307016

05-Jul-13

Client:	Animas I CoB Son	Environmen	ital #446					_			
Project:	CoP San	Juan 30-0 4	+440								
Sample ID	MB-8182	SampT	ype: ME	3LK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	PBS	Batch	ID: 81	82	F	RunNo: 1	1714				
Prep Date:	7/1/2013	Analysis D	ate: 7/	2/2013	S	SeqNo: 3	32746	Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		900		1000		90.3	80	120			
Sample ID	LCS-8182	SampT	pe: LC	s	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	LCSS	Batch	ID: 81	82	F	RunNo: 1	1714				
Prep Date:	7/1/2013	Analysis Da	ate: <b>7</b> /	2/2013	S	SeqNo: 3	32747	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	5.0	25.00	0	90.2	62.6	136			
Surr: BFB	······································	980		1000		97.5	80	120			
Sample ID	1307016-001AMS	SampTy	/pe: <b>M</b> \$	3	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID:	SC-1	Batch	ID: 81	82	R	RunNo: <b>1</b>	1714				,
Prep Date:	7/1/2013	Analysis Da	ate: 7/	2/2013	S	SeqNo: 3	32749	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	25	4.7	23.32	0	106	76	156			
Surr: BFB		960		932.8		102	80	120			
Sample ID	1307016-001AMS	D SampTy	pe: MS	SD	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID:	SC-1	Batch	ID: 81	82	F	RunNo: 1	1714				
Prep Date:	7/1/2013	Analysis Da	ate: 7/	2/2013	S	SeqNo: 3	32750	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Ranç	ge Organics (GRO)	24	4.7	23.30	0	102	76	156	3.87	17.7	
Surr: BFB		900		932.0		96.4	80	120	0	0	

#### 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

- 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 4 of 5

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

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											• • • • • • • • •
Client:	Animas	Environme	ental								
Project:	CoP Sar	Juan 30-6	#446								
Sample ID	MB-8182	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles	· · ·	
Client ID:	PBS	Batc	h ID: 81	82	F	RunNo: 1	1714				
Prep Date:	7/1/2013	Analysis (	Date: 7/	2/2013	ç	SeaNo: 3	32780	Units: ma/k	۲a		
		Desult						Utahi indi	·3		Qual
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC.	LowLimit	HighLimit	%RPD	RPDLIMI	Quai
Benzene		ND	0.050								
loluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	1.1		1.000		106	80	120			
Sample ID	LCS-8182	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: <b>81</b>	82	F	RunNo: <b>1</b>	1714				
Prep Date:	7/1/2013	Analysis [	Date: 7/	2/2013	5	SeqNo: 3	32781	Units: <b>mg/ł</b>	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.050	1.000	0	97.8	80	120			
Toluene		0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene		0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total		2.9	0.10	3.000	0	98.0	80	120			
Surr: 4-Bron	nofluorobenzene	1.1		1.000		111	80	120			
Sample ID	1307019-001AMS	Samp	Гуре: <b>МS</b>	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batc	h ID: 81	82	F	RunNo: <b>1</b>	1714				
Prep Date:	7/1/2013	Analysis [	Date: <b>7</b> /	2/2013	S	SeqNo: 3	32798	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.90	0.047	0.9443	0	95.6	67.3	145			
Toluene		1.1	0.047	0.9443	0.01485	117	66.8	144			
Ethylbenzene		0.90	0.047	0.9443	0	95.3	61.9	153			
Xylenes, Total		2.7	0.094	2.833	0.02509	95.6	65.8	149			
Surr: 4-Bron	nofluorobenzene	0.97		0.9443		103	80	120			
Sample ID	1307019-001AMS	SD Samp	Гуре: МS	5D	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batc	h ID: 81	82	F	RunNo: 1	1714				
Prep Date:	7/1/2013	Analysis [	Date: 7/	2/2013	5	SeqNo: 3	32799	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.047	0.9425	0	101	67.3	145	5.14	20	
Toluene		0.94	0.047	0.9425	0.01485	97.7	66.8	144	18.1	20	
Ethylbenzene		0.96	0.047	0.9425	0	102	61.9	153	6.32	20	
Xylenes, Total		2.9	0.094	2.828	0.02509	101	65.8	149	5.44	20	

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

1.0

0.9425

E Value above quantitation range

Surr: 4-Bromofluorobenzene

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

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120

0

H Holding times for preparation or analysis exceeded

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- ND 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

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WO#: 1307016 05-Jul-13

HALL Hall Envis	ronmental Analysis Laborat 4901 Hawkins Albuquerque, NM 87 -345-3975 FAX: 505-345-4 e: www.hallenvironmental.c	iory NE 105 <b>Sam</b> j 107 2009	mple Log-In Check List								
Client Name: Animas Environmental Work Order	Number: 1307016	· · · · · · · · · · · · · · · · · · ·	RcptNo: 1								
Received by/date: AF Ole 29/13											
Logged By: Michelle Garcia 6/29/2013 10:	:00:00 AM	Mirsel Gan	ue ·								
Completed By: Michelle Garcia 7/1/2013 10:2	24:43 AM	Minute Com	ue								
Reviewed By: IO 07/01/	13										
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?	<u>Courier</u>										
Log In											
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌									
5. Were all samples received at a temperature of >0° C to 6.	0°C Yes 🗹	No 🗌									
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 🗹									
10.VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🗹								
11. Were any sample containers received broken?	Yes 🗌	No 🗹 [	# of preserved								
12. Does paperwork match bottle labels?	Yes 🔽	No 🗆	bottles checked for pH:								
13 Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗔	Adjusted?								
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 🗔	Checked by:								
Special Handling (if applicable)	_	_									
16. Was client notified of all discrepancies with this order?	Yes 📙	No 🗌									
Person Notified: By Whom: Regarding: Client Instructions:	Date: Via: 🗋 eMail 📋 P	hone 🗌 Fax									
17. Additional remarks:		· · · · · · · · · · · · · · · · · · ·	L <u>a a a a a a a a a a a a a a a a a a a </u>								
18. <u>Cooler Information</u>											
Cooler No     Temp °C     Condition     Seal Intact     S	al No Seal Date	Signed By									
Page 1 of 1		<u> </u>									

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Chain-of-Custody Record			Turn-Around Time:				ф.		٩.	s a			<b>.</b>	<b>/ T</b> E	300	日日日			T A I	1	
Client:	10.000	Enio	montal Samilar	√ √ Standard	🗆 Rush	1				r A	i ai	ai	. Ei Vo	14 4 2 t 4	5 0 5 0		RA		1979 1 1. Tra	1448 7152	v
	things		Internet Services	Project Name	ə:			1		<u> </u>		873.KL		dro ou		tolo		1.20	-08 -4	69 U.S	. 11
Mailing	Address							40			~~~	v.nai						7400			
		624 6	E. Comanche	Project #:	uan 30-6	#446	-    ·	49	U1 H	ажк	ns r		AIC	- -	erqu	ie, in	10 07	-109 -			
<u>tarn</u>	ringto	NM.	87401				2. C.	)   الدور	el. 50	15-34	5-3	975 200		-ax	505	-345	-410	/ •	L. Constant		
Phone :	#: 505	-564	- 2281	D .:				$\langle$		2222					Neu	ues			1		
email o	r Fax#:		·	Project Mana	iger:		31)	onl						SO4	s						
	Package:		E Lovel 4 (Eull ) (alidation)				80	Gas	10			MS)		04							
	tation			D. Warso	$\frac{n}{1}$		- 6	H (C	Ъ К	_		IS (	d	Ъ М	82						
	AP	Othe	er	Sampler: H	WOODAS / C	Lameman		L P	0	8.1)	4	827(	(	ÞŽ	/ 80		2				L N
	(Type)			Sampleviem	perature 2	Contraction		ц Ш Ш	9 2 2	d 41	d 50	) or	tals		des	2	Ž				Σ°
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO BOTIO	BTEX + MA	BTEX + MTI	TPH 8015B	TPH (Metho	EDB (Metho	PAH's (8310	RCRA 8 Me	Anions (FĈ	8081 Pestici	8260B (VOA	8270 (Semi-				Air Bubbles
#12B/12	1105	50:1	50-1	1-40z		-001	X		X					X							$\top$
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Date:	Time:	Relinquish	led by:	Received by: Date Time				Remarks: Bill to Conoco Phillips													
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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.