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### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis D

Form C-141 Revised August 8, 2011

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

220 C St Francis Dr. Courte Fr. NBA 07505	Fe, NM 87505						
	on and Corrective Actio	D <b>n</b>					
Revised	OPERATOR	🗌 Initial Report 🛛 🛛 Final Repo					
Name of Company ConocoPhillips	Contact Lindsay Dumas						
Address 3401 East 30 <sup>th</sup> St, Farmington, NM	Telephone No.(505) 599-4089						
Facility Name: Omler A 1	Facility Type: Gas Well						
Surface Owner: Federal Mineral Owner	: Federal SF 077085	API No.30-045-11906					
LOCATIO	N OF RELEASE						
Unit LetterSectionTownshipRangeFeet from theNortG2628N10W1650	North/South LineFeet from theEast/West LineCountyNorth1650EastSan Juan						
Latitude <u>36.6358</u>	<u>79</u> Longitude <u>-107.86112</u>						
	E OF RELEASE						
Type of Release Produced Water	Volume of Release Unknown						
Source of Release Historic release discovered during BGT removal	Date and Hour of Occurrence Unknown	Date and Hour of Discovery June 19, 2013					
Was Immediate Notice Given?	If YES, To Whom?	June 19, 2013					
☐ Yes ☐ No ⊠ Not Required							
By Whom? Was a Watercourse Reached?	Date and Hour If YES, Volume Impacting the W	atercourse					
Yes X No	in 126, volume impacting the v						
f a Watercourse was Impacted, Describe Fully.*		RCUD TON 29'1 21					
Describe Cause of Problem and Remedial Action Taken.*		. OIL CONS. DIV.					
listorically impacted soil was discovered. Third party environment	al company contacted for assessmen	nt. DIST. 3					
Describe Area Affected and Cleanup Action Taken.* A spill of 2.3 bbls was found during a BGT removal, due to a pin hol The excavation was 30' x 30' x 8' in depth and 288 yds of soil was tra Aztec Machine Company and placed in the excavation site. Analytic The soil sampling report is attached for review.	ansported to IEI land farm and 378	yds of clean soil was transported from					
hereby certify that the information given above is true and complete to egulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t hould their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report ederal, state, or local laws and/or regulations.	notifications and perform corrective a he NMOCD marked as "Final Report the contamination that pose a threat to does not relieve the operator of respo	actions for releases which may endanger " does not relieve the operator of liability ground water, surface water, human health nsibility for compliance with any other					
Signature Xindbay Dumas	<u>OIL CONSER</u>	<u>VATION DIVISION</u>					
Printed Name: Lindsay Dumas	Approved by Environmental Specia	list: forall /- fell					
itle: Field Environmental Specialist	Approval Date: 1(/2/0014	Expiration Date:					
E-mail Address: Lindsay.Dumas@conocophillips.com	Conditions of Approval:	Attached					
Date: 10/8/2013 Phone: (505) 599-4089							
attach Additional Sheets If Necessary	nJK14:	316 53944					

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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 Form C-141 Revised August 8, 2011

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

1220 S. St. Fran	ncis Dr., Sant	a Fe, NM 87505	5	Sa	ınta Fe	e, NM 875	505						
<u></u>		• • • • •	Rele	ease Notific	eation	and Co	orrective A	ction	1			and and a second se	
						<b>OPERA</b>	ГOR		📋 Initi	al Report	$\boxtimes$	Final Repor	
		onocoPhillips				Contact Li	ndsay Dumas					· · ·	
		<sup>th</sup> St, Farmin	gton, NM	1			No.(505) 599-40	)89					
Facility Na	me: Omle	r A 1				Facility Typ	e: Gas Well						
Surface Ow	ner: Feder	al		Mineral C	)wner:	Federal			API No	.30-045-11	906		
				LOCA	TIO	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	West Line	County			
G	26	28N	10W	1650	]	North	1650		East	San Juan			
						OF REL							
Type of Rele Source of Re		oric Release				Volume of		nown		Recovered		known	
Source of Re	lease Uni	known				Date and Hour of Occurrence Date and Hour of Unknown June 19, 20					Hour of Discovery		
Was Immedi	ate Notice (	Given?				If YES, To			June 19,	2013			
			Yes 🗌	] No 🛛 Not Re	equired								
By Whom?				,		Date and H	lour			RCVD DC	T 10	113	
Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3								
If a Waterco	urse was Im	pacted, Descr	ibe Fully.'	*									
		em and Reme											
Historically	impacted s	on was disco	verea. In	ird party enviror	imental	company co	intacted for asse	ssment.					
The excavat Aztec Mach	ion was 30' ine Compa	ny and placed	depth and d in the ex	l 288 yds of soil v cavation site. Ai	was trai nalytica	nsported to I al results wer	EI land farm an re below the regu	d 378 ye ilatory s	ds of clean standards -	soil was tra - no further	nsport action	ted from n required.	
i ne son san	ipning repo	rt is attached	for revie	w.									
regulations a public health should their or the enviro	II operators or the envi operations h nment. In a , or local la	are required to ronment. The ave failed to a ddition, NMC ws and/or regu	o report an acceptanc adequately OCD accep	is true and comp nd/or file certain re- ce of a C-141 repo investigate and re- tance of a C-141	elease nort by the emediate	otifications a e NMOCD m e contaminati	nd perform correc arked as "Final R on that pose a thr	ctive act leport" d reat to gr	ions for rele loes not reli round water	eases which ieve the oper r, surface wa	may er ator of ter, hu	ndanger f liability man health	
Signature:	Andsay	Damas					<u>OIL CON</u>	SERV	<u>ATION</u>	DIVISIC	<u>)N</u>		
Printed Nam	e: Lindsay	Dumas		<del>,</del>		Approved by	Environmental S	pecialis	t:				
Title: Field	Environme	ntal Specialis	st			Approval Da	te:		Expiration	Date:			
E-mail Addr	ess: Lindsa	y.Dumas@co	nocophilli	ps.com		Conditions of	f Approval:			Attached			
Date: 10/8/2	013	Phone:	(505) 599-	4089									

\* Attach Additional Sheets If Necessary



Animas Environmental Services, LLC

www.animasenvironmental.com

September 16, 2013

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

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

### RE: Initial Release Assessment and Final Excavation Report Omler A #1 San Juan County, New Mexico

Dear Ms. Hunter:

On June 20 and 27, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Omler A #1, located in San Juan County, New Mexico. The release was the result of an unknown volume of produced water which leaked from a below grade tank (BGT). The initial release assessment was completed by AES on June 20, 2013, and the final excavation was completed by CoP contractors while AES was on location on June 27, 2013.

### 1.0 Site Information

### 1.1 Location

Location – SW¼ NE¼, Section 26, T28N, R10W, San Juan County, New Mexico Well Head Latitude/Longitude – N36.63594 and W107.86148, respectively Release Location Latitude/Longitude – N36.63595 and W107.86124, respectively Land Jurisdiction – Private Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, June 2013

### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills,* 

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

> Durango, Colorado 970-403-3084

Lisa Hunter Omler A #1 Initial Release Assessment and Final Excavation Report September 16, 2013 Page 2 of 6

*and Releases* (August 1993) prior to site work. The location was given a ranking score of 40 based on the following factors:

- Depth to Groundwater: A Pit Remediation and Closure Report form dated May 2004 for the Omler A #15, located approximately 2,000 feet west of the location, reported the depth to groundwater as less than 50 feet below ground surface (bgs). (20 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: A pond is located approximately 115 feet north of the release location, and the wash in Armenta Canyon is located approximately 325 feet to the northwest. (20 points)

#### 1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on June 20, 2013, and on the same day, Heather Woods and Lavina Lamone of AES completed the release assessment field work. The assessment included collection and field screening of three soil samples (S-1 through S-3) in the release area. Based on the field screening results, AES recommended further excavation of the release area. Sample locations are presented on Figure 3.

On June 27, 2013, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of seven confirmation soil samples (SC-1 through SC-7) of the walls and base of the excavation. The area of the final excavation was approximately 1,307 ft<sup>2</sup> by 8 to 10 feet in depth. Sample locations and final excavation extents are shown on Figure 4.

### 2.0 Soil Sampling

A total of three soil samples (S-1 through S-3) and seven composite samples (SC-1 through SC-7) were collected during the assessment and final clearance of the excavation. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). The composite samples (SC-1 through SC-7) collected during the excavation clearance were submitted for confirmation laboratory analysis.

Lisa Hunter Omler A #1 Initial Release Assessment and Final Excavation Report September 16, 2013 Page 3 of 6

### 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:

 TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

Soil sample SC-3 was also laboratory analyzed for:

 Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B.

### 2.3 Field Screening and Laboratory Analytical Results

On June 20, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 2,256 ppm in S-1 up to 2,400 ppm in S-2. Field TPH concentrations ranged from 11,100 mg/kg in S-3 up to 18,700 mg/kg in S-1.

On June 27, 2013, final excavation field screening results for VOCs via OVM ranged from 0.5 ppm in SC-4 up to 338 ppm in SC-3. Field TPH concentrations ranged from 101 mg/kg in SC-7 up to 349 mg/kg in SC-3. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Lisa Hunter Omler A #1 Initial Release Assessment and Final Excavation Report September 16, 2013 Page 4 of 6

Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg (kg)
NMOCD A	ation loug/*		(mg/kg)
	cuon Level*	100	100
6/20/13	4	2,256	18,700
6/20/13	4	2,400	13,500
6/20/13	4	2,367	11,100
6/27/13	1 to 10	4.4	144
6/27/13	1 to 10	2.6	187
6/27/13	10	338	349
6/27/13	1 to 10	0.5	115
6/27/13	8	1.2	113
6/27/13	1 to 8	1.3	132
6/27/13	1 to 8	1.7	101
	6/20/13 6/20/13 6/27/13 6/27/13 6/27/13 6/27/13 6/27/13 6/27/13	6/20/1346/20/1346/27/131 to 106/27/131 to 106/27/13106/27/131 to 106/27/131 to 106/27/131 to 106/27/131 to 8	6/20/1342,2566/20/1342,4006/20/1342,3676/27/131 to 104.46/27/131 to 102.66/27/13103386/27/131 to 100.56/27/1381.26/27/131 to 81.3

Table 1. Field Screening VOCs and TPH Results Omler A #1 Initial Release Assessment and Final Excavation

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

Laboratory analyses for SC-1 through SC-7 were used to confirm field screening results during excavation activities. Benzene and total BTEX concentrations in SC-3 were reported below laboratory detection limits of 0.12 mg/kg and 1.12 mg/kg, respectively. TPH concentrations as GRO/DRO ranged from below laboratory detection limits up to 12 mg/kg DRO in SC-3. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

Table 2.	Laboratory Analytical Results – Benzene, Total BTEX, and TPH
	Omler A #1 Final Excavation, June 2013

		Sample		Total			
Sample ID	Date Sampled	Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	
NMO	NMOCD Action Level*			50	100		
SC-1	6/27/13	1 to 10	NA	NA	<5.0	<10	
SC-2	6/27/13	1 to 10	NA	NA	<5.0	<9.9	
SC-3	6/27/13	10	<0.12	<1.12	<25	12	
SC-4	6/27/13	1 to 10	NA	NA	<5.0	<10	

Lisa Hunter

Omler A #1 Initial Release Assessment and Final Excavation Report September 16, 2013

Page 5 of 6

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	
NMOCD Action Level*			<b>10</b> ·	50	100		
SC-5	6/27/13	8	NA	NA	<5.0	<9.9	
SC-6	6/27/13	1 to 8	NA	NA	<5.0	<10	
SC-7	6/27/13	1 to 8	NA	NA	<5.0	<10	

\*Action level determined by the NMOCD ranking score per NMOCD Guidelines for Leaks, Spills, and Releases (August 1993); NA = not analyzed

### 3.0 Conclusions and Recommendations

On June 20, 2013, AES conducted an initial assessment of petroleum contaminated soils associated with a produced water release at the Omler A #1. 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 rank of 40. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in each sample, with the highest VOC concentration reported in S-2 (2,400 ppm). Field screening results also showed TPH concentrations above the NMOCD action level of 100 mg/kg in each sample, with the highest TPH concentration reported in S-1 (18,700 mg/kg).

On June 27, 2013, final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for all of the final four walls of the excavation. The southern base of the excavation (SC-3) exceeded the NMOCD action level of 100 ppm for VOCs with 338 ppm. Field TPH concentrations above the applicable NMOCD action level of 100 mg/kg were reported in each sample, with the highest concentration reported in SC-3 with 349 mg/kg. Laboratory analytical results reported benzene and total BTEX concentrations in SC-3 below NMOCD action levels. TPH concentrations (as GRO/DRO) were reported below the applicable NMOCD action level of 100 mg/kg in SC-1 through SC-7.

Based on final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the Omler A #1, benzene, total BTEX, VOC, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

Lisa Hunter Omler A #1 Initial Release Assessment and Final Excavation Report September 16, 2013 Page 6 of 6

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

Sincerely,

Bandree R. Cupps

Landrea Cupps Environmental Scientist

Upobut V Mindly

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, June 2013

Figure 3. Initial Assessment Sample Locations and Results, June 2013

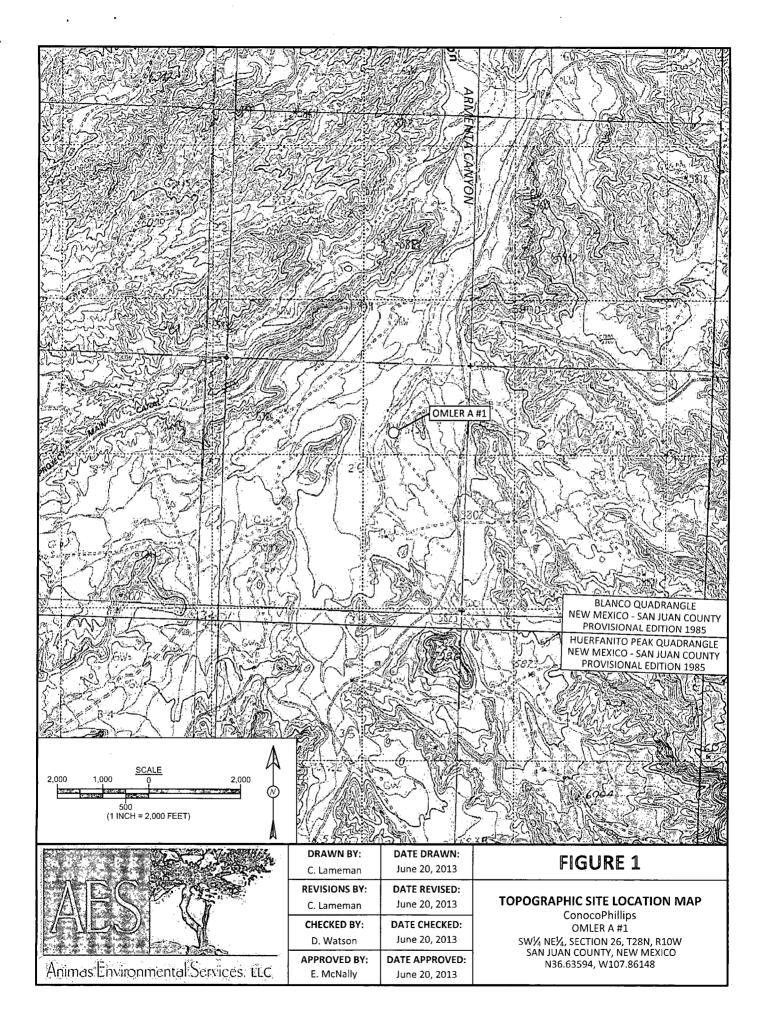
Figure 4. Final Excavation Sample Locations and Results, June 2013

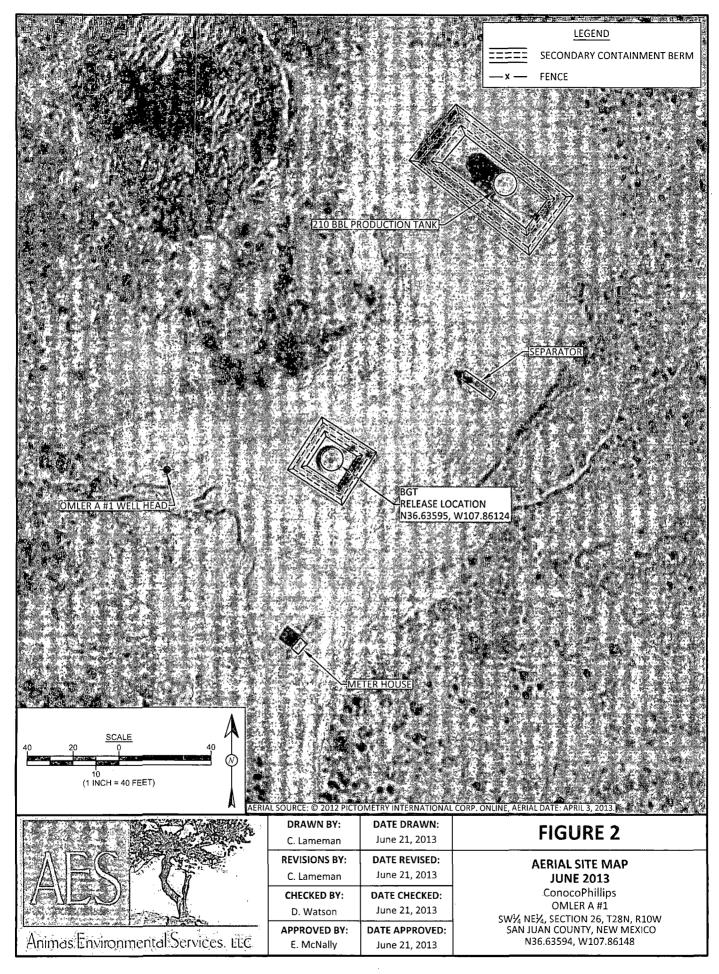
AES Field Screening Report 062013

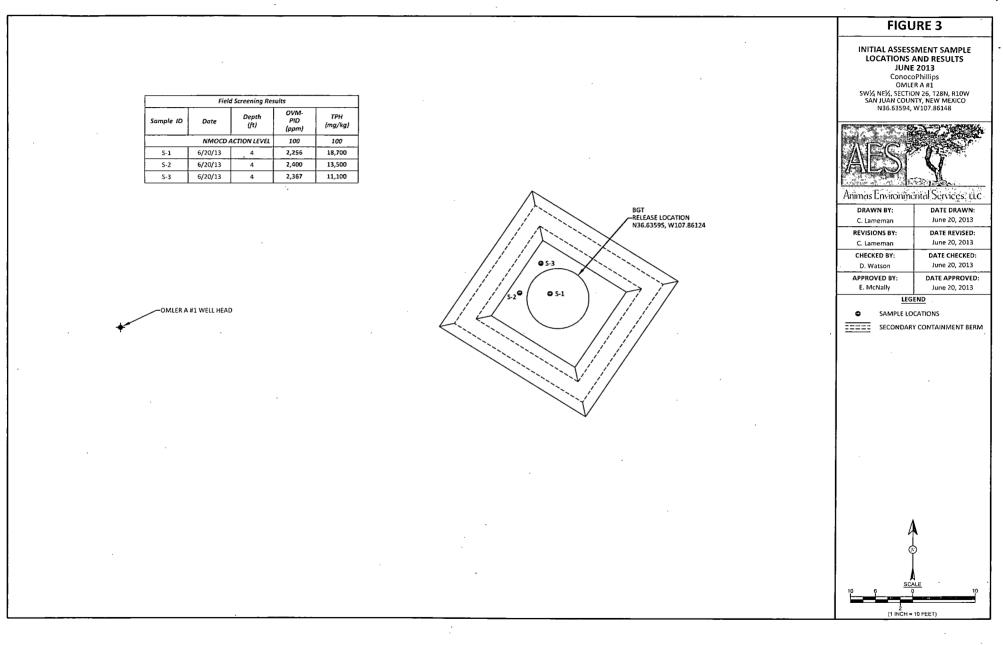
AES Field Screening Report 062713

Hall Laboratory Analytical Report 1306C08

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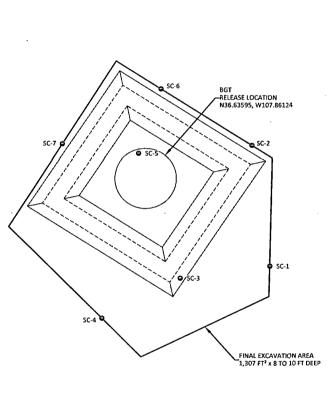
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	Field S	Screening Res	uits	
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)
	NMOCD AC	100	100	
SC-1	6/27/13	1 to 10	4.4	144
SC-2	6/27/13	1 to 10	2.6	187
SC-3	6/27/13	10	338	349
SC-4	6/27/13	1 to 10	0.5	115
SC-5	6/27/13	8	1.2	113
SC-6	6/27/13	1 to 8	1.3	132
SC-7	6/27/13	1 to 8	1.7	101

-OMLER A #1 WELL HEAD

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
	NMOCD AC	TION LEVEL	10	50	10	00
SC-1	6/27/13	1 to 10	NA	NA	<5.0	<10
SC-2	6/27/13	1 to 10	NA	NA	<5.0	<9.9
SC-3	6/27/13	10	<0.12	<1.12	<25	12
5C-4	6/27/13	1 to 10	NA	NA	<5.0	<10
SC-5	6/27/13	8	NA	NA	<5.0	<9.9
SC-6	6/27/13	1 to 8	NA	NA	<5.0	<10
SC-7	6/27/13	1 to 8	NA	NA	<5.0	<10



FINAL EXCAVATION SAMPLE JUNE 2013 ConocoPhillips OMLER A #1 SW¼ NE¼, SECTION 26, T28N, R10W SAN JUAN COUNTY, NEW MEXICO N36.63594, W107.86148 Animas Environmental Services: LLC DRAWN BY: DATE DRAWN: C. Lameman July 10, 2013 DATE REVISED: REVISIONS BY: July 10, 2013 C. Lameman CHECKED BY: DATE CHECKED: July 10, 2013 . D. Watson DATE APPROVED: APPROVED BY: July 10, 2013 E. McNally LEGEND SAMPLE LOCATIONS ۰ ===== SECONDARY CONTAINMENT BERM (1 INCH = 10 FEET)

FIGURE 4

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# AES Field Screening Report

AES

Animas Environmental Services, LLC.

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

## Project Location: Omler A #1

### Date: 6/20/2013

Client: ConocoPhillips

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	6/20/2013	12:42	Center Base	2,256	14:27	18,700	1,000	10	нмw
S-2	6/20/2013	12:44	SW Corner	2,400	14:41	13,500	100	1	HMW
<u>S-3</u>	6/20/2013	12:46	NW Corner	2,367	14:44	11,100	100	1	HMW
	- -			·					

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

Aleather M. Woods Analyst:

Total Petroleum Hydrocarbons - USEPA 418.1

\*Field TPH concentrations recorded may be below PQL.

### AES Field Screening Report

### Client: ConocoPhillips

Project Location: Omler A #1

### Date: 6/27/2013

Matrix: Soil



Animas Environmental Services LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/27/2013	16:03	South Wall	4.4	16:16	144	20.0	1	нмм
SC-2	6/27/2013	13:54	East Wall (South)	2.6	15:27	187	20.0	1	нмм
SC-3	6/27/2013	13:57	South Base	338	15:30	349	40.0	1	нмw
SC-4	6/27/2013	14:00	West Wall	0.5	15:32	115	20.0	1	нмw
SC-5	6/27/2013	14:23	North Base	1.2	15:35	113	20.0	1	HMW
SC-6	6/27/2013	14:27	East Wall (North)	1.3	15:40	132	20.0	1	HMW
SC-7	6/27/2013	14:30	North Wall	1.7	15:42	101	20.0	1	нмw

PQL Practical Quantitation Limit

- ND Not Detected at the Reporting Limit
- NA Not Analyzed
- DF Dilution Factor

Total Petroleum Hydrocarbons - USEPA 418.1 \*Field TPH concentrations recorded may be below PQL.

Analyst:

Aleather M. Woods



July 08, 2013

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

RE: COP Omler A #1

OrderNo.: 1306C08

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/28/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 01, 2013.

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. 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.

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

Sincerely,

andia

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1306C08

Date Reported: 7/8/2013

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Client Sample ID: SC-1 COP Omler A #1 Project: Collection Date: 6/27/2013 4:03:00 PM Lab ID: 1306C08-001 Matrix: SOIL Received Date: 6/28/2013 10:00:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: GSA

Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/29/2013 11:39:01 AM	8165
Surr: DNOP	98.8	63-147	%REC	1	6/29/2013 11:39:01 AM	8165
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/29/2013 3:58:43 PM	R11656
Surr: BFB	89.2	80-120	%REC	1	6/29/2013 3:58:43 PM	R11656

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

\* Qualifiers: Value exceeds Maximum Contaminant Level. В Analyte detected in the associated Method Blank E Value above quantitation range Н Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit Page 1 of 12 0 RSD is greater than RSDlimit Р Sample pH greater than 2 for VOA and TOC only. R RPD outside accepted recovery limits RL Reporting Detection Limit

# Analytical Report Lab Order 1306C08

Date Reported: 7/8/2013

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental **Client Sample ID:** SC-2 **Project:** COP Omler A #1 Collection Date: 6/27/2013 1:54:00 PM Lab ID: 1306C08-002 Matrix: SOIL Received Date: 6/28/2013 10:00:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch EPA METHOD 8015D: DIESEL RANGE ORGANICS Analyst: GSA

Diesel Range Organics (DRO)	ND	9.9	mg/Kg	. 1	6/29/2013 1:09:58 PM	8165
Surr: DNOP	98.4	63-147	%REC	1	6/29/2013 1:09:58 PM	8165
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/29/2013 5:29:25 PM	R11656
Surr: BFB	90.3	80-120	%REC	1	6/29/2013 5:29:25 PM	R11656

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

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Qualifiers:

- 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 Page 2 of 12

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

#### Lab Order 1306C08

Date Reported: 7/8/2013

6/29/2013 7:00:21 PM

R11656

### Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

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CLIENT: Animas EnvironmentalProject:COP Omler A #1Lab ID:1306C08-003	Client Sample ID: SC-3Collection Date: 6/27/2013 1:57:00 PMMatrix: SOILReceived Date: 6/28/2013 10:00:00 AM								
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	GSA			
Diesel Range Organics (DRO)	12	10	mg/Kg	1	6/29/2013 1:40:06 PM	8165			
Surr: DNOP	97.5	63-147	%REC	1	6/29/2013 1:40:06 PM	8165			
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB			
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	6/29/2013 7:00:21 PM	R11656			
Surr: BFB	115	80-120	%REC	5	6/29/2013 7:00:21 PM	R11656			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Benzene	ND	0.12	mg/Kg	5	6/29/2013 7:00:21 PM	R11656			
Toluene	ND	0.25	mg/Kg	5	6/29/2013 7:00:21 PM	R11656			
Ethylbenzene	ND	0.25	mg/Kg	5	6/29/2013 7:00:21 PM	R11656			
Xylenes, Total	ND	0.50	mg/Kg	5	6/29/2013 7:00:21 PM	R11656			

80-120

%REC

5

111

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3 of 12
3 of 12

### **Analytical Report** Lab Order 1306C08

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental

Date Reported: 7/8/2013 **Client Sample ID: SC-4** 

Project:         COP Omler A #1           Lab ID:         1306C08-004	Matrix:	SOIL			27/2013 2:00:00 PM 28/2013 10:00:00 AN	1
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/28/2013 12:25:22 P	M 8150
Surr: DNOP	119	63-147	%REC	1	6/28/2013 12:25:22 F	M 8150
EPA METHOD 8015D: GASOLINE R	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2013 11:32:58 A	M R11638
Surr: BFB	89.1	80-120	%REC	1	6/28/2013 11:32:58 A	M R11638

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 4 of 12
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
		······································		· · · · · · · · · · · · · · · · · · ·

# Hall Environmental Analysis Laboratory, Inc.

Surr: BFB

Lab Order **1306C08** Date Reported: **7/8/2013** 

6/28/2013 12:03:20 PM R11638

CLIENT: Animas EnvironmentalProject:COP Omler A #1Lab ID:1306C08-005	Matrix: S	SOIL		e ID: SC-5 Date: 6/27/2013 2:23:00 PM Date: 6/28/2013 10:00:00 AM	
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 6/28/2013 12:47:11 PM	/ 8150
Surr: DNOP	104	63-147	%REC	1 6/28/2013 12:47:11 PM	/ 8150
EPA METHOD 8015D: GASOLINE RA	ANGE			Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1 6/28/2013 12:03:20 PM	A R11638

80-120

%REC

1

88.9

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	_
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 5 of 12	,
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.	•
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	

### Lab Order 1306C08

Date Reported: 7/8/2013

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental			Client Sampl			
Project: COP Omler A #1					27/2013 2:27:00 PM	
Lab ID: 1306C08-006	Matrix:	SOIL	Received	<b>Date:</b> 6/2	28/2013 10:00:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: GSA
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/29/2013 2:10:11 PM	8165
Surr: DNOP	96.8	63-147	%REC	1	6/29/2013 2:10:11 PM	8165
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/29/2013 8:31:16 PM	R11656
Surr: BFB	89.4	80-120	%REC		6/29/2013 8:31:16 PM	R11656

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	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 Page 6 of 12
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

#### Lab Order 1306C08

Date Reported: 7/8/2013

6/28/2013 1:08:55 PM

6/28/2013 1:08:55 PM 8150

6/28/2013 12:33:30 PM R11638

6/28/2013 12:33:30 PM R11638

8150

Analyst: NSB

### Hall Environmental Analysis Laboratory, Inc.

Diesel Range Organics (DRO)

Gasoline Range Organics (GRO)

**EPA METHOD 8015D: GASOLINE RANGE** 

Surr: DNOP

Surr: BFB

**CLIENT:** Animas Environmental **Client Sample ID: SC-7 Project:** COP Omler A #1 Collection Date: 6/27/2013 2:30:00 PM 1306C08-007 Lab ID: Matrix: SOIL Received Date: 6/28/2013 10:00:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch EPA METHOD 8015D: DIESEL RANGE ORGANICS Analyst: JME

10

5.0

63-147

80-120

mg/Kg

%REC

mg/Kg

%REC

1

1

1

1

ND

104

ND

88.8

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	. B	Analyte detected in the associated Method Blank
	Е	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 Page 7 of 1
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

### Q

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc.	,

WO#: 1306C08

08-Jul-13

Client:	Animas F	Invironmer	utal								
Project:	COP Om		itai								
Sample ID MB-		SampT			TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS			ID: 81			RunNo: 1					•
Prep Date: 6/2	8/2013	Analysis D	ate: 6/	/28/2013	S	SeqNo: 3	30163	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	ND	10	10.00							•
Surr: DNOP		11		10.00	·····	107	63	147			
Sample ID LCS	-8150	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Organics	
Client ID: LCS	S	Batch	ID: 81	50	F	RunNo: <b>1</b>	1622				
Prep Date: 6/2	8/2013	Analysis D	ate: <b>6</b> /	/28/2013	S	SeqNo: 3	30219	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	58	10	50.00	0	115	77.1	128	•		
Surr: DNOP		5.7		5.000		114	63	147			
Sample ID 130	6C08-007AMS	SampT	ype: M	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Drganics	<u> </u>
Client ID: SC-	7	Batch	ID: 81	50	F	RunNo: 1	1622				
Prep Date: 6/2	8/2013	Analysis D	ate: 6/	/28/2013	S	SeqNo: 3	330331	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	49	10	49.80	0	97.6	61.3	138			
Surr: DNOP		5.3		4.980		106	63	147			
Sample ID 130	6C08-007AMS	D SampT	ype: M	SD	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Drganics	
Client ID: SC-	7	Batch	ID: 81	50	F	RunNo: 1	1622		•	0	
Prep Date: 6/2	28/2013	Analysis D	ate: 6	/28/2013	ç	SeqNo: 3	30332	Units: mg/l	۲g		
Analyte		Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	50	9.9	49.55	0	101	61.3	138	2.97	20	
Surr: DNOP		5.3		4.955		107	63	147	0	0	
Sample ID MB	8165	SampT	vpe: MI	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Drganics	
Client ID: PBS			ID: 81		F	RunNo: 1	1648		0	0	
Prep Date: 6/2	29/2013	Analysis D	ate: 6	/29/2013	ç	SeqNo: 3	330452	Units: <b>mg/i</b>	٢g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organ	ics (DRO)	ND	10								
Surr: DNOP		8.3		10.00		83.2	63	147			
Sample ID LCS		SampT	ype: LC	cs	Tes	stCode: E	PA Method	8015D: Dies	el Range (	Drganics	
Client ID: LCS		•	ID: 81			RunNo: 1				-	
Prep Date: 6/2		Analysis D				SeqNo: 3		Units: mg/l	<g< td=""><td></td><td></td></g<>		
		Result	PQL		SPK Ref Val	•		HighLimit	%RPD	RPDLimit	Qual
Analyte											

#### Qualifiers:

Value exceeds Maximum Contaminant Level. \*

Value above quantitation range Е

Analyte detected below quantitation limits J

- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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

RL Reporting Detection Limit Page 8 of 12

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C08

08-Jul-13

	mas Environmental P Omler A #1	l 							
Sample ID LCS-8165	SampType	e: LCS	Tes	tCode: EPA	Method	8015D: Diese	l Range C	Organics	
Client ID: LCSS	Batch ID	8165	F	RunNo: <b>116</b> 4	48				
Prep Date: 6/29/2013	Analysis Date	e: 6/29/2013	S	GeqNo: 3304	453	Units: mg/K	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6	5.000		92.3	63	147			
Sample ID 1306C08-00	1AMS SampType	e: MS	Tes	tCode: EPA	Method	8015D: Diese	I Range C	Drganics	
Client ID: SC-1	Batch ID	8165	F	RunNo: <b>116</b> 4	48				
Prep Date: 6/29/2013	Analysis Date	e: 6/29/2013	S	SeqNo: 3307	742	Units: mg/K	g		
Analyte	Result F	QL SPK value	SPK Ref Val	%REC L	.owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10 50.45	0	103	61.3	138			
Surr: DNOP	5.2	5.045		103	63	147			
Sample ID 1306C08-00	1AMSD SampType	e: MSD	Tes	tCode: EPA	Method	8015D: Diese	el Range (	Drganics	
Client ID: SC-1	Batch ID	): <b>8165</b>	F	RunNo: 1164	48				
Prep Date: 6/29/2013	Analysis Date	e: 6/29/2013	S	SeqNo: <b>330</b> 7	743	Units: mg/K	g		
Analyte	Result F	QL SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.9 49.65	0	106	61.3	138	1.32	20	
Surr: DNOP	5.1	4.965		103	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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C08

08-Jul-13

Client: Project:	Animas E COP Om	Environmen ler A #1	tal						·		
Sample ID	5ML RB	SampTy	/pe: <b>ME</b>	BLK	. Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: <b>R1</b>	1656	F	RunNo: 1	1656				
Prep Date:		Analysis Da	ate: 6/	29/2013	5	SeqNo: 3	30656	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 920	5.0	1000		92.4	80	120			
Sample ID	2.5UG GRO LCS	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: <b>R1</b>	1656	F	RunNo: 1	1656				
Prep Date:		Analysis Da	ate: <b>6</b> /	29/2013	ę	SeqNo: 3	30657	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	96.2	62.6	136			
Surr: BFB		980		1000		98.3	80	120			
Sample ID	1306C08-001AMS	SampTy	/pe: <b>M</b> \$	3	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	SC-1	Batch	ID: <b>R1</b>	1656	F	RunNo: 1	1656				
Prep Date:		Analysis Da	ate: 6/	29/2013	5	SeqNo: 3	30659	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	15	5.0	15.91	0	93.3	76	156		,	
Surr: BFB		620		636.5		96.7	80	120			
Sample ID	1306C08-001AMS	D SampTy	/pe: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D: Gasc	oline Rang	e	
Client ID:	SC-1	Batch	ID: <b>R1</b>	1656	F	RunNo: 1	1656				
Prep Date:		Analysis Da	ate: 6/	29/2013	5	SeqNo: 3	30660	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	16	5.0	15.91	0	103	76	156	9.94	17.7	
Surr: BFB		630		636.5		98.2	80	120	0	0	
Sample ID	MB-8141	SampTy	ype: MB	3LK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: <b>R1</b>	1638	F	RunNo: 1	1638				
Prep Date:	6/27/2013	Analysis Da	ate: 6/	28/2013	5	SeqNo: 3	30852	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		880		1000		88.4	. 80	120			·
Sample ID	LCS-8141	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: <b>R1</b>	1638	F	RunNo: 1	1638			•	
Prep Date:	6/27/2013	Analysis Da	ate: 6/	28/2013	ę	SeqNo: 3	30853	Units: mg/h	۲g		
Analuta		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte											

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- 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
- Р Sample pH greater than 2 for VOA and TOC only.
- RL

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Reporting Detection Limit

# **QC SUMMARY REPORT**

Hall Environmental	l Analysis	Laboratory,	Inc.
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Client:	Animas Environmental
Project:	COP Omler A #1

Sample ID LCS-8141	SampTy	pe: LCS	8	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch ID: R11638 RunNo: 11638												
Prep Date: 6/27/2013	Analysis Date: 6/28/2013			S	eqNo: 3	30853	Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: BFB	970		1000		97.4	80	120						

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- 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
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

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WO#: 1306C08

08-Jul-13

# QC SUMMARY REPORT

Hall Env	ironmer	ital Analysis Laborato	ry, Inc.
Client: Project:		s Environmental Dmler A #1	
Sample ID 51	/L RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PI	BS	Batch ID: R11656	RunNo: <b>11656</b>

T ... .

- 1- ----

Prep Date: Analysis Date: 6/29/2013 SeqNo: 330668 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 0.050 ND Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 1.000 109 80 120 1.1

Sample ID 100NG BTEX LC	<b>S</b> Samp	Type: LC	s	Test	tCode: El	PA Method				
Client ID: LCSS	Bato	:h ID: <b>R1</b>	1656	R	RunNo: <b>1</b>	1656				
Prep Date:	Analysis	Analysis Date: 6/29/2013			SeqNo: 3	30669	Units: <b>mg/</b> #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	102	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	1.1		1.000		113	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

- 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 12 of 12

WO#: 1306C08

Qual

RPDLimit

08-Jul-13

Client Name:       Animas Environmental       Work Order Number: 1306C08       RepNo: 1         Received by/date:       Iff 04/23//5       Image: Second	HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Laborata 4901 Hawkins Albuquerque, NM 871 975 FAX: 505-345-41 w.hallenvironmental.c	ple Log-In Check List									
Logged By:       Ame Thome       6/28/2013       Gree       June         Completed By:       Ame Thome       6/28/2013       Gree       June         Reviewed By:       June       June       June       June         Chain of Custody       June       June       June       June         Chain of Custody complete?       Yes       No       Not Present       Zune         2. Is Chain of Custody complete?       Yes       No       Not Present       Zune         3. How was the sample delivered?       Courier       Courier       Log       In         4. Was an attempt made to cool the samples?       Yes       No       NA       Sufficient sample volume for indicated test(s)?         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA       Sufficient sample volume for indicated test(s)?         7. Sufficient sample volume for indicated test(s)?       Yes       No       Na       Superservative added to bottles?       Yes       No       NA       Superservative added to bottles?       Yes       No       NA       Superservative added to bottles?       Yes       No       No       VOA Viais Zuperservative added to bottles?       Yes       No       Ma       Superservative added <ttd>For preserved       Yes Zuperservative added to b</ttd>	Client Name: Animas Environm	ental Work Order Num	ber: 1306C08		RcptNo:	1							
Completed By:       Anno Thome       6/28/2013       Anno Thome       6/28/2013         Reviewed By:       Aff 0.6/28/1/3       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?       Counter         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       NA         7.       Sufficient sample volume for indicated test(s)?       Yes       No       NA         9.       Was preservative added to bottles?       Yes       No       NA         10.       VOA vials have zero headspace?       Yes       No       NA       11.         11.       Were any sample containers raceived broken?       Yes       No       Adjusted?       12.         12.       Does papervork match bottle labels?       Yes       No       Adjusted?       13.       Am matrices correcity identified on Chain of Custody?       Yes <t< td=""><td>Received by/date:</td><td>6/28/13</td><td></td><td></td><td></td><td></td></t<>	Received by/date:	6/28/13											
Reviewed By:       Africal/28/13         Chain of Custody       1. Custody seals intact on sample bottles?       Yes       No       Not Present       Image: Control of Custody complete?         2. Is Chain of Custody complete?       Yes       No       Not Present       Image: Control of Custody complete?         3. How was the sample delivered?       Courier       Courier         Log In	Logged By: Anne Thorne	6/28/2013 10:00:00	) AM	anne Hom	~								
Reviewed By:       Africal/28/13         Chain of Custody       1. Custody seals intact on sample bottles?       Yes       No       Not Present       Image: Control of Custody complete?         2. Is Chain of Custody complete?       Yes       No       Not Present       Image: Control of Custody complete?         3. How was the sample delivered?       Courier       Courier         Log In	Completed By: Anne Thorne	6/28/2013		anne Arm									
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	Reviewed By: g Ar	E U6/28/13	· · · · · · · · · · · · · · · · · · ·										
2. Is Chain of Custody complete?       Yes Ø       No       Nct Present [         3. How was the sample delivered?       Courier         Log In       4. Was an attempt made to cool the samples?       Yes Ø       No       NA         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes Ø       No       NA         6. Sample(s) in proper container(s)?       Yes Ø       No       NA         7. Sufficient sample volume for indicated test(s)?       Yes Ø       No       NA         9. Was preservative added to botties?       Yes Ø       No       NA         10. VOA vials have zero headspace?       Yes Ø       No       Ma         11. Were any sample containers received broken?       Yes Ø       No       Ma         12. Does paperwork match bottle labels?       Yes Ø       No       If of preserved         13. Are matrices correctly identified on Chain of Custody?       Yes Ø       No       Adjusted?         14. Is it clear what analyses were requested?       Yes Ø       No       Checked by:         15. Were all hoding times able to be met?       Yes Ø       No       Adjusted?         14. Is it clear what analyses were requested?       Yes Ø       No       Checked by:         15. Were all hoding times able to be met?       Yes Ø       No<	Chain of Custody												
3. How was the sample delivered?       Courier         Log In       4. Was an attempt made to cool the samples?       Yes Ø       No       NA         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes Ø       No       NA         6. Sample(s) in proper container(s)?       Yes Ø       No       NA         7. Sufficient sample volume for indicated test(s)?       Yes Ø       No       NA         8. Are samples (except VOA and ONG) properly preserved?       Yes Ø       No       NA         9. Was preservative added to bottles?       Yes Ø       No       NA         10. VOA vials have zero headspace?       Yes Ø       No       Ma         11. Were any sample containers received broken?       Yes Ø       No       Ma         12. Does paperwork match bottle labels?       Yes Ø       No       If of preserved         14. Is it clear what analyses were requested?       Yes Ø       No       Adjusted?         14. Is it clear what analyses were requested?       Yes Ø       No       Checked by:         15. Were all holding times able to be met?       Yes Ø       No       Checked by:         15. Were all holding times able to be met?       Yes Ø       No       NA Ø         16. Was client notified or all discrepancies with this order?       Yes Ø	1. Custody seals intact on sample	bottles?	Yes	No 🗆	Not Present 🗹								
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       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       Na         8. Are samples (except VOA and ONG) properly preserved?       Yes       No       Na         9. Was preservative added to bottles?       Yes       No       Na         10. VOA vials have zero headspace?       Yes       No       No       Va         11. Were any sample containers received broken?       Yes       No       If of preserved bottles checked for pH: (<2 or >12 unless notect for pH: (       Checked by: (         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Checked by: (         14. Is it clear what analyses were requested?       Yes       No       Checked by: (         15. Were all holding times able to be met?       Yes       No       Na       Ma         16. Was client notified:       Date       Ma       Ma       Ma	2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present								
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       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       NA         8. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Was preservative added to botties?       Yes       No       NA         10. VOA vials have zero headspace?       Yes       No       No       Was of preserved?         11. Were any sample containers received broken?       Yes       No       Image: Correctly identified on Chain of Custody?       Yes       No       Image: Correctly identified on Chain of Custody?         12. Does paperwork match bottle labels?       Yes       No       Image: Correctly identified on Chain of Custody?       Yes       No       Image: Correctly identified on Chain of Custody?       Yes       No       Adjusted?       Image: Correctly identified on Chain of Custody?       Yes       No       Checked by:       Checke	3. How was the sample delivered?		Courier			·							
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       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       NA         8. Are samples (except VOA and ONG) property preserved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA         10.VOA vials have zero headspace?       Yes       No       No       NA         11. Were any sample containers received broken?       Yes       No       No       No         12. Does paperwork match bottle labels?       Yes       No       Image: Cor>       Yes       No       Image: Cor>       Yes       No       Image: Cor>       Adjusted?       Yes       No       Image: Cor>       Adjusted?       Yes       No       Checked by:       Image: Che	Log In	· .											
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         11. Were any sample containers received broken?       Yes       No         12. Does paperwork match bottle labels?       Yes       No         (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?       Yes       No         (If no, notify customer for authorization.)       Special Handling (if applicable)         16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:	4. Was an attempt made to cool t	he samples?	Yes 🔽	No 🗌	NA 🗌								
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   11. Were any sample containers received broken? Yes No   12. Does paperwork match bottle labels? Yes No   (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? Yes No   Checked by: (ff no, notify customer for authorization.) Checked by: <b>Special Handling (if applicable)</b> 16. Was client notified:   Person Notified: Date   By Whom: Via: eMail   Regarding: Client Instructions:	5. Were all samples received at a	temperature of >0° C to 6.0°C	Yes 🗹	No 🗌									
8. Are samples (except VOA and ONG) properly preserved?       Yes       No       Na         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?       Yes       ✓       No       ✓       ✓       ✓         12. Does paperwork match bottle labels?       Yes       ✓       No       ✓       ✓       ✓         13. Are matrices correctly identified on Chain of Custody?       Yes       ✓       No       ✓       Adjusted?       ✓         14. Is it clear what analyses were requested?       Yes       ✓       No       ✓       Checked by:       ✓       ✓         15. Were all holding times able to be met?       Yes       ✓       No       ✓       Checked by:       ✓       ✓         16. Was client notified of all discrepancies with this order?       Yes       No       Na       ✓       ✓         17. Were all holding time:                16. Was client notified of all discrepancies with this order?	6. Sample(s) in proper container(s	3)?	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       # of preserved bottles checked for pH: (<2 or >12 unless noted for pH: (<2 or >12 unle	7. Sufficient sample volume for inc	licated test(s)?	Yes 🗹	No 🗌									
10. VOA vials have zero headspace?       Yes       No       No VOA Vials         11. Were any sample containers received broken?       Yes       No       # of preserved bottles checked         12. Does paperwork match bottle labels?       Yes       No       # of preserved bottles checked         12. Does paperwork match bottle labels?       Yes       No       # of preserved bottles checked         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met?       Yes       No       Checked by:         (If no, notify customer for authorization.)       Special Handling (if applicable)       In Person Notified:         16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date       Date       In Person         By Whom:       Via:       eMail       Phone       Fax       In Person         Regarding:       Client Instructions:       Client Instructions:       In Person       In Person	8. Are samples (except VOA and 0	DNG) properly preserved?	Yes 🗹	No 🗌									
11. Were any sample containers received broken?       Yes       No       ✓ of preserved bottle labels?         12. Does paperwork match bottle labels?       Yes       ✓ No       ✓ of preserved bottles checked for pH: (<2 or >12 unless noted         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?       Yes       ✓ No       ✓         (If no, notify customer for authorization.)       Yes       ✓ No       ✓         Special Handling (if applicable)       16. Was client notified of all discrepancies with this order?       Yes       No       NA         16. Was client notified:       Date	9. Was preservative added to bott	es?	Yes	No 🗹	NA 🗌								
12. Does paperwork match bottle labels?       Yes       No       # of preserved bottles checked for pH:         (Note discrepancies on chain of custody)       Yes       No       Image: Correctly identified on Chain of Custody?         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Image: Correctly identified on Chain of Custody?         14. Is it clear what analyses were requested?       Yes       No       Image: Correctly identified on Chain of Custody?         15. Were all holding times able to be met?       Yes       Yes       No       Checked by:         (If no, notify customer for authorization.)       Yes       No       Checked by:       Checked by:         16. Was client notified of all discrepancies with this order?       Yes       No       NA       Person Notified:         By Whom:       Via:       eMail       Phone       Fax       In Person         Regarding:       Client Instructions:       Client Instructions:       Client Instructions:       Client Instructions:	10.VOA vials have zero headspace	97	Yes	No 🗔	No VOA Viais 🗹								
12. Does paperwork match bottle labels?       Yes       No       for pH:	11. Were any sample containers re	ceived broken?	Yes	No 🗹									
13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         14. Is it clear what analyses were requested?       Yes       No       Checked by:         15. Were all holding times able to be met?       Yes       No       Checked by:         (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       NA         Person Notified:       Date       Date       End       End       End         By Whom:       Via:       eMail       Phone       Fax       In Person         Regarding:       Client Instructions:       Client Instructions:       Client Instructions:       Client Instructions:			Yes 🗹	No 🗆	for pH:	>12 unless noted)							
15. Were all holding times able to be met? (If no, notify customer for authorization.)       Yes       No       Checked by:		•••	Yes 🗹	No 🗀	Adjusted?								
(If no, notify customer for authorization.)         Special Handling (if applicable)         16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date	14, Is it clear what analyses were re	equested?	Yes 🗹	No 🗌									
16. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date	-		Yes 🗹	No 🗌	Checked by:								
Person Notified:       Date         By Whom:       Via:       eMail       Phone       Fax       In Person         Regarding:       Client Instructions:       Interface       Interface       Interface	Special Handling (if applica	<u>ble)</u>											
By Whom:  Via:    Regarding:    Client Instructions:	16. Was client notified of all discrep	ancies with this order?	Yes 🗌	No 🗌	NA 🗹								
Regarding: Client Instructions:	Person Notified:	Date											
Client Instructions:	By Whom:	Via:	🗌 eMail 🔲 Ph	ione 🗌 Fax	In Person								
	и и												
18. <u>Cooler Information</u> <u>Cooler No</u> Temp <sup>o</sup> C Condition Seal Intact Seal No Seal Date Signed By 1 1.0 Good Yes	18. <u>Cooler Information</u> Cooler No Temp °C Co		Seal Date	Signed By									

Page 1 of 1

Chain-of-Custody Record				Turn-Around Time:					HALL ENVIRONMENTAL												
Client: Animas Env; rommendel Services			Standard X Rush Same Day				ANALYSIS LABORATORY														
				Project Name	e:			e	<u>,</u>												
Mailing Address: 1024 E. Commanchy			1 Cop Dun	her Att 1		4901 Hawkins NE - Albuquerque, NM 87109															
Enner 1 ALA BAUDI			Project #:	ler A #1	· · · · · · · · · · · · · · · · · · ·	Tel. 505-345-3975 Fax 505-345-4107															
Farmington, NM 87401 Phone #: 505-564-2281										ALC: NO DESCRIPTION	10. 10. 10. 10. 11. I.	100 m 1 - 1			- Mar - 1	1774 Inc. of the second					
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			r	On Ice	XYes		1 1 1 1		(GRO	418.1)	504	9 8	sl	S S S	es /		(Semi-VOA)				۲oг
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Date	Time	Matrix	Sample Request ID		Preservative	/ HEAL No	Ţ	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or	<b>RCRA 8 Metals</b>	IS (F	Pes	8260B (VOA)	Se Se				Air Bubbles
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1	f necessary,	samples sub	mitted to Hall Environmental may be subo	contracted to other a	ccredited laboratorie	es. This serves as notice of thi	is possi	bility. A	Any su	b-cont	racted	l data v	witt be	dearl	y nota	ited on	the ar	nalytica	al repor	t.	

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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.