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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

JUN 03 2015

Form C-141 Revised August 8, 2011

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

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

DI

			Kele	ease Notifica	ation	and Co	rrective A	ction			
						OPERAT	OR		Initia	l Report	Final Report
Name of Co	mpany Bu	urlington Res	ources O	l & Gas Compan	y (Contact Lin	dsay Dumas				
Address 340						Telephone N	lo.(505) 599-40	89			
Facility Nan	ne: San Ju	ıan 28-6 207	M]	Facility Typ	e: Gas				
Surface Owi	ner Public			Mineral Ov	vnor: 1	Foo		ΛD	I No.	3003925612	
Surface Owi	ici. i ubiic			Willierar	viici. i			Al	I INO.	.5005925012	
				LOCA	TION	OF REI	LEASE				
Unit Letter	Section	Township	Range	A COMPANY		South Line	Feet from the	East/West L	ine	County	
F	10	27N	06W	1450		FNL	1575	FWL		Rio Arriba	
				Latitude 36.							
True of Dolor	ana Huda	a a a sub a su /Dua d	wood Wat		JKE	OF RELI Volume of		70 hhla	Val	ume Recovered	12/0 bbls
Type of Relea		ocarbon/Prod luction Tank	uced wat	er			our of Occurrence			e and Hour of Dis	
Source of Rei	icase 1100	raction rank				12/29/2014		C		29/2014 11:00 AN	
Was Immedia	te Notice (If YES, To	Whom?				
		\boxtimes	Yes	No Not Rec	quired	Cory Smit	h				
By Whom?	Lindsay						our 11/29/2014				
Was a Watero	course Reac		Yes 🛛 1	No		If YES, Vo	lume Impacting t	he Watercour	se.		
If a Watercou	rse was Im	pacted, Descri	be Fully.*								
Describe Cau				n Taken.* ning out of tank. T	ha wall	was shut in	dikas wara huilt t	o control rela	aca fl	uid truck was con	tacted to pull
remaining oil					iic weii	was silut iii,	dikes were built t	o control relea	asc, II	uid tiuck was con	tacted to pun
Tomaning on		i unij mee buu	iumg mun								
Describe Ana	a A CControl	and Classian	ation Tol	*		Acc.					
Describe Area				c/yds of soil was	trans	norted to II	ELLand Farm	and 876 c/v	ds of	clean soil was	transported
				ne excavation sit							
				t is attached for			ares were below	the regula	tory	standar as no	Tur ther
		1	8 - 1 -								
I hereby certi	fy that the i	nformation gi	ven above	is true and comple	ete to th	ne best of my	knowledge and u	nderstand tha	t purs	uant to NMOCD	rules and
				nd/or file certain re							
				ce of a C-141 repor							
				investigate and re							
		iddition, NMC ws and/or regu		tance of a C-141 r	eport d	oes not reliev	e the operator of	responsibility	for co	ompliance with ar	ny other
rederal, state,	or tocal la	ws and/or rege	nations.				OIL CON	SERVATI	ON	DIVISION	
Signature:	Xma	Jan 1	rum	00			OIL COIV	OLICVATI		DIVISION	4
	(10								/an	().	/ /
Printed Name	: Lindsay	Dumas				Approved by	Environmental S	pecialist:		TUL	
Title: Field I	Environme	ntal Specialis	t			Approval Dat	e: 7/10/15	Expira	ation	Date:	
E-mail Addre	ess: Lindsa	y.Dumas@co	nocophill	ps.com		Conditions of	Approval:			Attached	
Date: 5/21/2	015		P	hone: (505) 599-40)89						
		etc If Necess		10110. (505) 577-40	,57	14.	1-0-0				

#NCS 1507240705

Animas Environmental Services, LLC



March 23, 2015

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

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

RE: Release Assessment and Final Excavation Report

San Juan 28-6 #207M

Rio Arriba County, New Mexico

Dear Ms. Dumas:

On January 6 and February 3, 2015, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 28-6 #207M, located in Rio Arriba County, New Mexico. The release consisted of approximately 76 barrels (bbls) of produced water and condensate. The initial release assessment was completed by AES on January 6, 2015, and the final excavation was completed by CoP contractors while AES was at the location on February 3, 2015.

1.0 Site Information

Figure 2. Aerial Site Map, January 2015

1.1 Location

Site Name – San Juan 28-6 #207M

Location – SE¼ NW¼, Section 10, T27N, R6W, Rio Arriba County, New Mexico Well Head Latitude/Longitude – N36.59189 and W107.45776, respectively

Release Location Latitude/Longitude – N36.59209 and W107.45753, respectively

Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 280 Durango, CO 970-403-3084

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, and Releases* (August 1993) prior to site work. The release was given a ranking score of 20 based on the following factors:

- Depth to Groundwater: Based on elevation, topographic interpretation, and visual reconnaissance, depth to groundwater is interpreted to be 50 to 100 feet below ground surface (bgs). (10 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Approximately 450 feet to the southeast is a livestock pond. Carrizo Canyon wash is approximately 600 feet southwest.
 Discharge is ultimately to the San Juan River. (10 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of CoP on December 30, 2014, and on January 6, 2015, Emilee Skyles and Dylan Davis of AES completed the release assessment field work. The assessment included collection and field sampling of 15 soil samples from eight borings in and around the release area. Soil borings were terminated between 0.5 and 6 feet due to auger refusal. An additional sample was composited from three samples in the immediate vicinity of the release. Based on field sampling results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On February 3, 2015, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of six confirmation soil samples (SC-1 through SC-6) from the walls and base of the excavation. The area of the final excavation measured approximately 66 feet by 41.5 feet by 3 to 12 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 22 soil samples from eight borings (SB-1 through SB-8) and seven composite samples (Chlorides and SC-1 through SC-6) were collected during the assessment and excavation clearance. All soil samples except chlorides were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Three samples (SB-2, SB-4, and chlorides) collected during the initial assessment and six composite samples (SC-1 through SC-6) collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

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 U.S. Environmental Protection Agency (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. All soil samples, except Chlorides, were laboratory analyzed for:

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

In addition, soil samples SB-2 and SC-1 through SC-6 were laboratory analyzed for:

Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B.

Soil samples SC-1 through SC-6 were laboratory analyzed for:

TPH for motor oil range organics (MRO) per USEPA Method 8015D.

Composite soil sample Chlorides was laboratory analyzed for

Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

On January 6, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.8 ppm in SB-3 up to 2,991 ppm in SB-2. Field TPH concentrations ranged from 29.4 mg/kg in SB-1 up to greater than 2,500 mg/kg in SB-1, SB-2, and SB-5.

On February 3, 2015, final excavation field screening results for VOCs via OVM ranged from 6.2 ppm in SC-6 up to 83.5 ppm in SC-5. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-1, SC-2, SC-4, and SC-6 up to 28.8 mg/kg in SC-3. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Field Sampling VOCs and TPH Results
San Juan 28-6 #207M Initial Release Assessment and Final Excavation
January and February 2015

	Date	Sample Depth	VOCs via OVM	TPH 418.1
Sample ID	Sampled	(ft bgs)	(ppm)	(mg/kg)
NMO	CD Action Lev	rel*	100	100
		0.5	2,367	>2,500
SB-1	1/6/15	2	214	29.4
		4	147	70.8
		0.5	1,667	>2,500
SB-2	1/6/15	2	311	79.6
3D-Z	1/6/15	4	2,991	>2,500
		6	2,445	183
		0.5	0.8	41.9
SB-3	1/6/15 -	2	1.1	NA
		4	1.0	43.2
SB-4	1/6/15	0.5	15.8	140
SB-5	1/6/15	0.5	1,780	>2,500
SB-6	1/6/15	0.5	2.5	NA
SB-7	1/6/15	0.5	2.6	NA
SB-8	1/6/15	0.5	0.9	NA
SC-1	2/3/15	1 to 12	38.9	<20.0
SC-2	2/3/15	1 to 12	6.3	<20.0
SC-3	2/3/15	1 to 12	9.4	28.8
SC-4	2/3/15	1 to 3	9.9	<20.0
SC-5	2/3/15	10 to 12	83.5	26.4
SC-6	2/3/15	3 to 5	6.2	<20.0

NA - not analyzed

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

Laboratory analyses for SB-2, SB-4, and Chlorides were used to confirm field sampling results of the initial release assessment. Benzene and total BTEX concentrations were reported at 0.49 mg/kg and 37.99 mg/kg, respectively, in SB-2. TPH concentrations as GRO/DRO were reported in SB-2 (489 mg/kg) and SB-4 (36 mg/kg). The chloride concentration was reported at 190 mg/kg.

Laboratory analyses for SC-1 through SC-6 were used to confirm field sampling results from the final excavation. Benzene concentrations in SC-1 through SC-6 were reported below laboratory detection limits in all samples. Total BTEX concentrations were reported below laboratory detection limits in all samples except SC-5 (0.22 mg/kg). TPH concentrations as GRO/DRO/MRO in SC-1 through SC-6 were also reported below laboratory detection limits in all samples. Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides San Juan 28-6 #207M Initial Release Assessment and Final Excavation

January and February 2015

			sarraar y c	arra r corac	4. 7 2020			
Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Chlorides (mg/kg)
NMO	CD Action Le	evel*	10	50		100		NE
SB-2	1/6/15	6	0.49	37.99	390	99	NA	NA
SB-4	1/6/15	0.5	NA	NA	<4.8	36	NA	NA
Chlorides	1/6/15	0.5	NA	NA	NA	NA	NA	190
SC-1	2/3/15	1 to 12	<0.047	<0.235	<4.7	<10	<51	NA
SC-2	2/3/15	1 to 12	<0.050	<0.249	<5.0	<9.8	<49	NA
SC-3	2/3/15	1 to 12	<0.049	<0.245	<4.9	<9.9	<50	NA
SC-4	2/3/15	1 to 3	<0.048	<0.240	<4.8	<9.9	<50	NA
SC-5	2/3/15	10 to 12	<0.049	0.22	<4.9	<9.8	<49	NA
SC-6	2/3/15	3 to 5	<0.047	<0.235	<4.7	<10	<50	NA

NA - not analyzed

^{*}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

On January 6, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with a release of produced water and condensate at the San Juan 28-6 #207M. 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 20.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in SB-1, SB-2, and SB-5. The highest VOC concentration was reported in SB-2 with 2,991 ppm, and the highest TPH concentration was reported in SB-1, SB-2, and SB-5 with greater than 2,500 mg/kg.

Laboratory analyses for SB-2, SB-4, and Chlorides were used to confirm field sampling results. Benzene and total BTEX concentrations were reported below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively, in SB-2. TPH concentrations as GRO/DRO exceeded the NMOCD action level of 100 mg/kg in SB-2 (489 mg/kg). Chloride concentrations were reported at 190 mg/kg.

On February 3, 2015, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC and field TPH concentrations were below applicable NMOCD action levels for the final walls and base of the excavation. Laboratory analytical results reported benzene, total BTEX, and TPH concentrations as GRO/DRO/MRO below applicable NMOCD action levels in all samples.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-6 #207M, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

David J. Reese

Environmental Scientist

David of Reme

Lindsay Dumas San Juan 28-6 #207M Release Assessment and Final Excavation Report March 23, 2015 Page 7

Elizabeth V Mindly

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, January 2015

Figure 3. Initial Assessment Sample Locations and Results, January 2015

Figure 4. Final Excavation Sample Locations and Results, February 2015

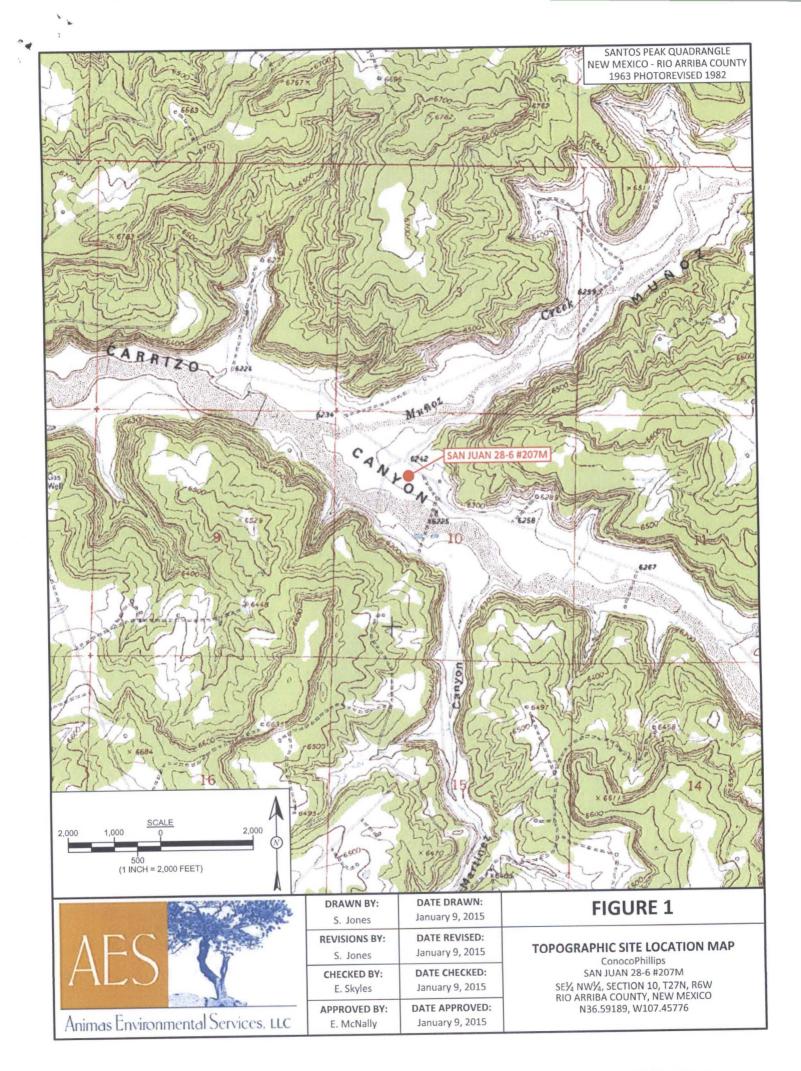
AES Field Sampling Report 010615

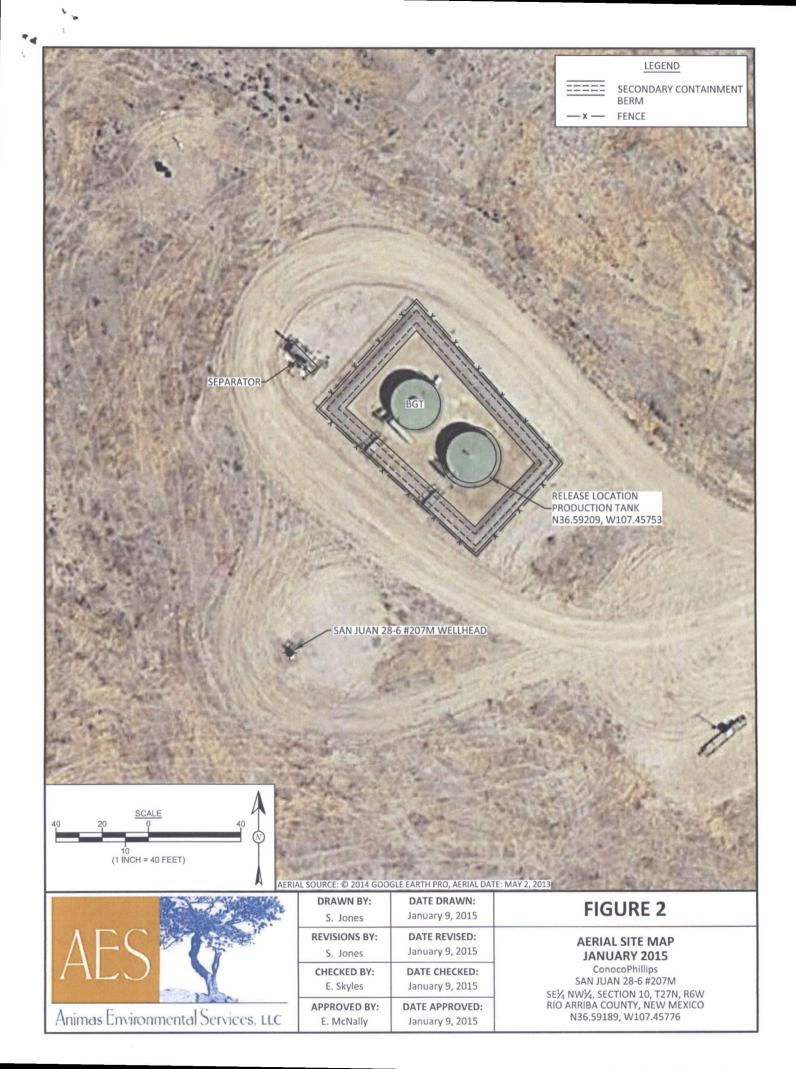
AES Field Sampling Report 020315

Hall Laboratory Analytical Report 1501128

Hall Laboratory Analytical Report 1502143

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	Field So	mpling Re	sults	
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)
NI	MOCD ACTI	ON LEVEL	100	100
		0.5	2,367	>2,500
SB-1	1/6/15	2	214	29.4
		4	147	70.8
		0.5	1,667	>2,500
SB-2	1/6/15	2	311	79.6
2B-2	1/6/13	4	2,991	>2,500
		6	2,445	183
		0.5	0.8	41.9
SB-3	1/6/15	2	1.1	NA
		4	1.0	43.2
SB-4	1/6/15	0.5	15.8	140
SB-5	1/6/15	0.5	1,780	>2,500
SB-6	1/6/15	0.5	2.5	NA
SB-7	1/6/15	0.5	2.6	NA
SB-8	1/6/15	0.5	0.9	NA

		Lab	oratory And	alytical Res	ults		
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCE	ACTION L	EVEL	10	50	10	NE	
SB-2	1/6/15	6	0.49	37.99	390	99	NA
SB-4	1/6/15	0.5	NA	NA	<4.8	36	NA
CHLORIDES	1/6/15	0.5	NA	NA	NA	NA	190

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D.

NA - NOT ANALYZED. NE - NOT ESTABLISHED. SAMPLE CHLORIDES IS A THREE POINT
COMPOSITE OF SB-1, SB-2 AND SB-5 AT 0.5 FEET BGS AND WAS ANALYZED PER USEPA
METHOD 300.0.

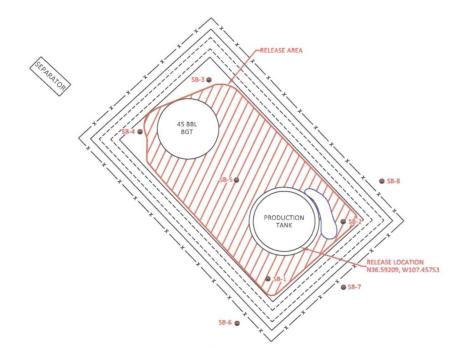


FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS

JANUARY 2015

Conocophillips SAN JUAN 28-6 #207M SE¼ NW¼, SECTION 10, T27N, R6W RIO ARRIBA COUNTY, NEW MEXICO N36.59189, W107.45776



Animas Environmental Services, LLC

	DRAWN BY: S. Jones	DATE DRAWN: January 7, 2015
F	REVISIONS BY: S. Jones	DATE REVISED: January 21, 2015
	CHECKED BY: E. Skyles	DATE CHECKED: January 21, 2015
	APPROVED BY:	DATE APPROVED:

LEGEND

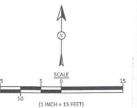
SAMPLE LOCATIONS

SECONDARY CONTAINMENT BERM

— x — FENCE

VISIBLY STAINED SOILS

PUDDLE OF SNOWMELT AND CONDENSATE



SAN JUAN 28-6 #207M WELLHEAD

Sample ID	Date Date	Depth (ft)	OVM- PID	TPH (mg/kg)
	NMOCD A	CTION LEVEL	(ppm) 100	100
SC-1	2/3/15	1 to 12	38.9	<20.0
SC-2	2/3/15	1 to 12	6.3	<20.0
SC-3	2/3/15	1 to 12	9.4	28.8
SC-4	2/3/15	1 to 3	9.9	<20.0
SC-5	2/3/15	10 to 12	83.5	26.4
SC-6	2/3/15	3 to 5	6.2	<20.0
C-1 THROUG	H SC-6 WER	E COMPOSITE	SAMPLES.	

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
NMOCE	ACTION L	EVEL	10	50		100	
SC-1	2/3/15	1 to 12	<0.047	<0.235	<4.7	<10	<51
SC-2	2/3/15	1 to 12	<0.050	< 0.249	<5.0	<9.8	<49
SC-3	2/3/15	1 to 12	<0.049	<0.245	<4.9	<9.9	<50
SC-4	2/3/15	1 to 3	<0.048	<0.240	<4.8	<9.9	<50
SC-5	2/3/15	10 to 12	<0.049	0.22	<4.9	<9.8	<49
SC-6	2/3/15	3 to 5	< 0.047	<0.235	<4.7	<10	<50

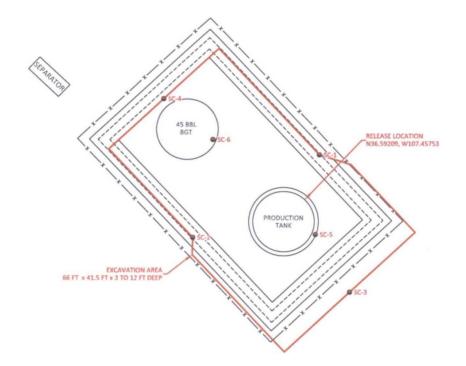


FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS FEBRUARY 2015

Conocophillips
SAN JUAN 28-6 #207M
SE¼ NW¼, SECTION 10, T27N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.59189, W107.45776



Animas Environmental Services, LLC

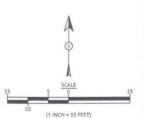
DRAWN BY:	DATE DRAWN:
C. Lameman	February 10, 2015
REVISIONS BY:	DATE REVISED:
C. Lameman	February 10, 2015
CHECKED BY:	DATE CHECKED:
E. Skyles	February 10, 2015
APPROVED BY:	DATE APPROVED:
R. Kennemer	February 10, 2015

LEGEND

SAMPLE LOCATIONS

==== SECONDARY CONTAINMENT BERM

-x - FENCE



SAN JUAN 28-6 #207M WELLHEAD



Client: ConocoPhillips

Project Location: San Juan 28-6 #207M

Date: 1/6/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0.5'	1/6/2015	11:10	2,367	>2,500	12:12	20.0	1	EMS
SB-1 @ 2'	1/6/2015	11:19	214	29.4	12:09	20.0	1	EMS
SB-1 @ 4'	1/6/2015	11:30	147	70.8	12:07	20.0	1	EMS
SB-2 @ 0.5'	1/6/2015	12:12	1,667	>2,500	12:45	20.0	1	EMS
SB-2 @ 2'	1/6/2015	12:15	311	79.6	12:47	20.0	1	EMS
SB-2 @ 4'	1/6/2015	12:19	2,991	>2,500	12:56	20.0	1	EMS
SB-2 @ 6'	1/6/2015	13:50	2,445	183	14:29	20.0	1	EMS
SB-3 @ 0.5'	1/6/2015	12:21	0.8	41.9	13:40	20.0	1	EMS
SB-3 @ 2'	1/6/2015	12:25	1.1		Not	Analyzed for Ti	PH	
SB-3 @ 4'	1/6/2015	12:30	1.0	43.2	13:42	20.0	1	EMS
SB-4 @ 0.5'	1/6/2015	13:10	15.8	140	13:45	20.0	1	EMS
SB-5 @ 0.5'	1/6/2015	13:38	1,780	>2,500	14:11	20.0	1	EMS
SB-6 @ 0.5'	1/6/2015	14:03	2.5		Not	Analyzed for Ti	PH	
SB-7 @ 0.5'	1/6/2015	14:25	2.6		Not .	Analyzed for Ti	PH	

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials		
SB-8 @ 0.5'	1/6/2015	14:40	0.9	Not Analyzed for TPH						

DF

Dilution Factor

Total Petroleum Hydrocarbons - USEPA 418.1

Sinh ShL

NA

Not Analyzed

PQL

Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Analyst:

Report Finalized: 1/6/15

AES Field Sampling Report



Client: ConocoPhillips

Project Location: San Juan 28-6 #207M

Date: 2/3/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	2/3/2015	9:10	North Wall	38.9	12.8	9:43	20.0	1	EMS
SC-2	2/3/2015	8:12	South Wall	6.3	14.1	9:04	20.0	1	EMS
SC-3	2/3/2015	8:18	East Wall	9.4	28.8	9:07	20.0	1	EMS
SC-4	2/3/2015	8:15	West Wall	9.9	16.5	9:10	20.0	1	EMS
SC-5	2/3/2015	9:15	Base (East)	83.5	26.4	9:59	20.0	1	EMS
SC-6	2/3/2015	8:22	Base (West)	6.2	14.1	9:15	20.0	1	EMS

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

st: Sinh ShL



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

January 14, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281

FAX

RE: CoP SJ 28-6 #207M

OrderNo.: 1501128

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/7/2015 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1501128

Date Reported: 1/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

CoP SJ 28-6 #207M

Project: Lab ID:

1501128-001

Client Sample ID: SB-2@6'

Collection Date: 1/6/2015 1:50:00 PM

Received Date: 1/7/2015 7:00:00 AM

Analyses	Result	RL (Qual Un	nits	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	99	10	m	g/Kg	1	1/8/2015 11:52:40 AM	17105
Surr: DNOP	93.0	63.5-128	%	REC	1	1/8/2015 11:52:40 AM	17105
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst	NSB
Gasoline Range Organics (GRO)	390	96	m	g/Kg	20	1/8/2015 11:52:04 AM	17107
Surr: BFB	133	80-120	S %	REC	20	1/8/2015 11:52:04 AM	17107
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.49	0.48	m	g/Kg	20	1/8/2015 11:52:04 AM	17107
Toluene	6.7	0.96	m	g/Kg	20	1/8/2015 11:52:04 AM	17107
Ethylbenzene	2.8	0.96	m	g/Kg	20	1/8/2015 11:52:04 AM	17107
Xylenes, Total	28	1.9	m	g/Kg	20	1/8/2015 11:52:04 AM	17107
Surr: 4-Bromofluorobenzene	114	80-120	%	REC	20	1/8/2015 11:52:04 AM	17107

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 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1501128

Date Reported: 1/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-6 #207M

Lab ID:

1501128-002

Client Sample ID: SB-4@0.5'

Collection Date: 1/6/2015 1:10:00 PM

Received Date: 1/7/2015 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	36	9.9	mg/Kg	1	1/8/2015 1:23:29 PM	17105
Surr: DNOP	96.1	63.5-128	%REC	1	1/8/2015 1:23:29 PM	17105
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/8/2015 12:46:13 PM	17107
Surr: BFB	93.0	80-120	%REC	1	1/8/2015 12:46:13 PM	17107

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 2 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1501128

Date Reported: 1/14/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-6 #207M

Lab ID: 1501128-003

Client Sample ID: Chlorides

Collection Date: 1/6/2015 2:35:00 PM

Received Date: 1/7/2015 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: Igp
Chloride	190	7.5	mg/Kg	5	1/12/2015 3:06:54 P	M 17174

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 3 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501128

14-Jan-15

Client: Project: Animas Environmental CoP SJ 28-6 #207M

Sample ID MB-17174

Sample ID LCS-17174

Client ID: LCSS

SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 17174

RunNo: 23623

Units: mg/Kg

Prep Date: 1/12/2015

Analysis Date: 1/12/2015

SeqNo: 697460

Qual

Analyte

Result ND

SPK value SPK Ref Val %REC LowLimit 1.5

HighLimit

%RPD

RPDLimit

Chloride

SampType: LCS Batch ID: 17174

Analysis Date: 1/12/2015

PQL

1.5

RunNo: 23623

SeqNo: 697461

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

HighLimit

RPDLimit %RPD

Qual

Analyte

Prep Date: 1/12/2015

15.00

92.6

SPK value SPK Ref Val %REC

110

Chloride

14

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

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 B

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Sample pH greater than 2.

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501128 14-Jan-15

Client:

Animas Environmental

Project.

CoP SI 28-6 #207M

Project:	CoP SJ 2	8-6 #207M									
Sample ID	MB-17105	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics	
Client ID:	PBS	Batch II): 17	105	F	RunNo: 2	3536				
Prep Date:	1/7/2015	Analysis Date	e: 1 /	8/2015	5	SeqNo: 6	95364	Units: mg/K	(g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	ND 9.5	10	10.00		04.5	62.5	128			
Suil. DNOP		9.5		10.00		94.5	63.5	120			
Sample ID	LCS-17105	SampTyp			Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	LCSS	Batch II): 17	105	F	RunNo: 2	3536				
Prep Date:	1/7/2015	Analysis Date	e: 1 /	8/2015	8	SeqNo: 6	95365	Units: mg/k	(g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	63	10	50.00	0	125	67.8	130			
Surr: DNOP		4.7		5.000		94.4	63.5	128			
Sample ID	MB-17136	SampTyp	e: M	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	PBS	Batch II	D: 17	136	F	RunNo: 2	3562				
Prep Date:	1/8/2015	Analysis Date	e: 1 /	9/2015	8	SeqNo: 6	95950	Units: %RE	С		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.9		10.00		89.4	63.5	128			
Sample ID	LCS-17136	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch II	D: 17	136	F	RunNo: 2	3562				
Prep Date:	1/8/2015	Analysis Date	e: 1/	/9/2015	8	SeqNo: 6	95951	Units: %RE	С		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.3		5.000		86.2	63.5	128			
Sample ID	1501128-001AMS	SampTyp	e: M \$	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	SB-2@6'	Batch II	D: 17	105	F	RunNo: 2	3536				
Prep Date:	1/7/2015	Analysis Date	e: 1 /	/8/2015	5	SeqNo: 6	95962	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	120	9.9	49.65	98.82	50.3	29.2	176			
Surr: DNOP	W	4.7		4.965		94.6	63.5	128			
Sample ID	1501128-001AMSI	S ampTyp	e: M \$	SD	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID:	SB-2@6'	Batch II	D: 17	105	F	RunNo: 2	3536				
Prep Date:	1/7/2015	Analysis Date	e: 1	/8/2015	\$	SeqNo: 6	95963	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	160	9.9	49.26	98.82	125	29.2	176	25.8	23	R
Surr: DNOP		4.9		4.926		100	63.5	128	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit

Page 5 of 8

- Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501128

14-Jan-15

Client:

Animas Environmental

Project:

CoP SJ 28-6 #207M

Sample ID MB-17169

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

PBS

Batch ID: 17169

RunNo: 23580

Prep Date: 1/12/2015

Analysis Date: 1/12/2015

SeqNo: 696520

Units: %REC

Analyte

Result

SPK value

RPDLimit

Qual

Surr: DNOP

10.00

SPK Ref Val %REC

HighLimit

8.6

128

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Η Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample pH greater than 2.

Reporting Detection Limit RL

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

Result

22

950

4.8

WO#: 1501128 14-Jan-15

Client:

Animas Environmental

Project:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

CoP SJ 28-6 #207M

Sample ID MB-17107	SampType: MI	BLK	Test	Code: EF	A Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch ID: 17	107	R	lunNo: 23	3541				
Prep Date: 1/7/2015	Analysis Date: 1	/8/2015	S	SeqNo: 69	95642	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	920	1000		92.4	80	120			
Sample ID LCS-17107	SampType: LC	cs	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch ID: 17	107	R	RunNo: 23	3541				
Prep Date: 1/7/2015	Analysis Date: 1	/8/2015	S	SeqNo: 69	95643	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0	25.00	0	82.1	65.8	139			
Surr: BFB	1000	1000		101	80	120			
Sample ID 1501128-002AMS	SampType: M	S	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: SB-4@0.5'	Batch ID: 17	107	R	RunNo: 2	3541				
Prep Date: 1/7/2015	Analysis Date: 1	/8/2015	S	SeqNo: 69	95648	Units: mg/K	g		

Surr: BFB		820	965.3		85.2	80	120			
Sample ID	1501128-002AMSD	SampType	MSD	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	е	
Client ID:	SB-4@0.5'	Batch ID:	17107	F	RunNo: 2	3541				
Prep Date:	1/7/2015	Analysis Date	1/8/2015	S	SeqNo: 6	95649	Units: mg/l	K g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	4.8 24.08	0	94.1	47.9	144	4.06	29.9	

0

SPK value SPK Ref Val %REC

24.13

963.4

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

LowLimit

47.9

80

90.2

99.0

HighLimit

144

120

RPDLimit

Qual

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501128

14-Jan-15

Client:

Animas Environmental

Project:

CoP SJ 28-6 #207M

Sample ID MB-17107	SampT	ype: ME	BLK	Test	tCode: El	tiles				
Client ID: PBS	Batch	Batch ID: 17107			RunNo: 2	3541				
Prep Date: 1/7/2015	Analysis Date: 1/8/2015			SeqNo: 695657 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID LCS-17107	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 17	107	F	RunNo: 2	3541				
Prep Date: 1/7/2015	Analysis D	ate: 1/	8/2015	S	SeqNo: 6	95658	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	91.2	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.6	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		126	80	120			S

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.
- RL Reporting Detection Limit

Page 8 of 8



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

Work Order Number: 1501128 RcptNo: 1 Client Name: Animas Environmental Received by/date: 1/7/2015 7:00:00 AM **Ashley Gallegos** Logged By: Completed By: **Ashley Gallegos** 1/7/2015 8:40:13 AM 01/07/15 Reviewed By: Chain of Custody No [.] Not Present Yes [Custody seals intact on sample bottles? No 🗆 Not Present Yes 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA [] Yes No [] 4. Was an attempt made to cool the samples? NA [] No [5. Were all samples received at a temperature of >0° C to 6.0°C No [6. Sample(s) in proper container(s)? No [] 7. Sufficient sample volume for indicated test(s)? No [8. Are samples (except VOA and ONG) properly preserved? NA [] Yes [No 9. Was preservative added to bottles? No VOA Vials 10. VOA vials have zero headspace? No No M 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No [] 13. Are matrices correctly identified on Chain of Custody? No 🗌 14. Is it clear what analyses were requested? No [] Checked by: 15. Were all holding times able to be met? (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 By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good

Client:	Animas	Enviva	nmental Services. LLC	Project Name	□ Rush					F	N		YS	515	5 L	AE	30		NT/		
Mailing	Address	:604 W	1. Pinon St.	COP S	J 28-6 =	#207M		49	01 H	lawk	ins N	VE -	Alb	uqu	erqu	e, N	M 87	7109			
			1 8740/	Project #:				Te	el. 50)5-34	45-3	-	Name and Address of the Owner, where	THE RESERVE OF THE PERSON NAMED IN	CONTRACTOR OF THE	ALC: UNKNOWN	410	7			
Phone	to be the distribution of the last		4-2281									A	nal	The same of	Req	ues					
	Package:	•	□ Level 4 (Full Validation)	Project Mana E. Sky			FMB's (8021)	TPH (Gas only)	(0) (新色			SIMS)		PO4,SO4)	PCB's						
Accred	itation	□ Othe	r	Sampler: E	X Yes	□ No	HE	TPH	0 / DF	8.1)	4.1)	8270 \$		3,NO2,	/ 8082		-	Chlorides			î
	(Type)			Sample Tem			四岸	MTBE +	(GR	d 41	d 50		als	N,	des	-	00	o			80
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTE	TPH 8015В (GRO / DRO / MRE)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Ch			Air Bubbles (Y or N)
1/6/15	13:50	Soil	SB-206'	1-402.	cool	-001	X		X												
16/15	13:10	Soil	SB-400.5'	1-402.	Coop	- 002			X												
16/15	14:35	Soil	Chlorides	1-402.	cool	-003												X			
							+														_
Date:	Time: 17.3% Time: 17.35	Relinquishe Relinquishe	inspl	Received by: Received by: contracted to other	Doctedited laboratorie	Date Time Date Time Time Time Time Time Time Time	Suy	#: pervisi ER:	s: P 255 or BR Any si	369 Bobby ADL	16 ySpe -RY	አናብኒ፥	in		'AR Orde	red l		linds	ay Du	nmas	



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

February 10, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281

FAX

RE: CoP SJ 28-6 #207M

OrderNo.: 1502143

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/4/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1502143

Date Reported: 2/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-6 #207M

Lab ID: 1502143-001

Client Sample ID: SC-1

Collection Date: 2/3/2015 9:10:00 AM

Matrix: SOIL Received Date: 2/4/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/6/2015 5:04:21 PM	17564
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	2/6/2015 5:04:21 PM	17564
Surr: DNOP	98.6	63.5-128	%REC	1	2/6/2015 5:04:21 PM	17564
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2015 11:07:26 PM	17567
Surr: BFB	101	80-120	%REC	1	2/5/2015 11:07:26 PM	17567
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	2/5/2015 11:07:26 PM	17567
Toluene	ND	0.047	mg/Kg	1	2/5/2015 11:07:26 PM	17567
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2015 11:07:26 PM	17567
Xylenes, Total	ND	0.094	mg/Kg	1	2/5/2015 11:07:26 PM	17567
Surr: 4-Bromofluorobenzene	118	80-120	%REC	1	2/5/2015 11:07:26 PM	17567

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 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1502143

Date Reported: 2/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP SJ 28-6 #207M

Collection Date: 2/3/2015 8:12:00 AM

Lab ID: 1502143-002

Matrix: SOIL

Received Date: 2/4/2015 8:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/6/2015 5:26:09 PM	17564
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/6/2015 5:26:09 PM	17564
Surr: DNOP	99.6	63.5-128	%REC	1	2/6/2015 5:26:09 PM	17564
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/5/2015 11:36:05 PM	17567
Surr: BFB	99.8	80-120	%REC	1	2/5/2015 11:36:05 PM	17567
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.050	mg/Kg	1	2/5/2015 11:36:05 PM	17567
Toluene	ND	0.050	mg/Kg	1	2/5/2015 11:36:05 PM	17567
Ethylbenzene	ND	0.050	mg/Kg	1	2/5/2015 11:36:05 PM	17567
Xylenes, Total	ND	0.099	mg/Kg	1	2/5/2015 11:36:05 PM	17567
Surr: 4-Bromofluorobenzene	115	80-120	%REC	1	2/5/2015 11:36:05 PM	17567

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 2 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1502143

Date Reported: 2/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-6 #207M

Lab ID:

1502143-003

Client Sample ID: SC-3

Collection Date: 2/3/2015 8:18:00 AM

Received Date: 2/4/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/6/2015 5:47:42 PM	17564
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/6/2015 5:47:42 PM	17564
Surr: DNOP	98.7	63.5-128	%REC	1	2/6/2015 5:47:42 PM	17564
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/6/2015 12:04:44 AM	17567
Surr: BFB	99.6	80-120	%REC	1	2/6/2015 12:04:44 AM	17567
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.049	mg/Kg	1	2/6/2015 12:04:44 AM	17567
Toluene	ND	0.049	mg/Kg	1	2/6/2015 12:04:44 AM	17567
Ethylbenzene	ND	0.049	mg/Kg	1	2/6/2015 12:04:44 AM	17567
Xylenes, Total	ND	0.098	mg/Kg	1	2/6/2015 12:04:44 AM	17567
Surr: 4-Bromofluorobenzene	112	80-120	%REC	1	2/6/2015 12:04:44 AM	17567

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 3 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1502143

Date Reported: 2/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: CoP SJ 28-6 #207M

Collection Date: 2/3/2015 8:15:00 AM

Lab ID: 1502143-004

Matrix: SOIL

Received Date: 2/4/2015 8:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/6/2015 6:09:23 PM	17564
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/6/2015 6:09:23 PM	17564
Surr: DNOP	96.8	63.5-128	%REC	1	2/6/2015 6:09:23 PM	17564
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/6/2015 12:33:29 AM	17567
Surr: BFB	101	80-120	%REC	1	2/6/2015 12:33:29 AM	17567
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	2/6/2015 12:33:29 AM	17567
Toluene	ND	0.048	mg/Kg	1	2/6/2015 12:33:29 AM	17567
Ethylbenzene	ND	0.048	mg/Kg	1	2/6/2015 12:33:29 AM	17567
Xylenes, Total	ND	0.096	mg/Kg	1	2/6/2015 12:33:29 AM	17567
Surr: 4-Bromofluorobenzene	117	80-120	%REC	1	2/6/2015 12:33:29 AM	17567

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 4 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1502143

Date Reported: 2/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-6 #207M

Lab ID:

1502143-005

Client Sample ID: SC-5

Collection Date: 2/3/2015 9:15:00 AM

Received Date: 2/4/2015 8:30:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/6/2015 6:30:50 PM	17564
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/6/2015 6:30:50 PM	17564
Surr: DNOP	101	63.5-128	%REC	1	2/6/2015 6:30:50 PM	17564
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/6/2015 1:02:10 AM	17567
Surr: BFB	106	80-120	%REC	1	2/6/2015 1:02:10 AM	17567
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	2/6/2015 1:02:10 AM	17567
Toluene	ND	0.049	mg/Kg	1	2/6/2015 1:02:10 AM	17567
Ethylbenzene	ND	0.049	mg/Kg	1	2/6/2015 1:02:10 AM	17567
Xylenes, Total	0.22	0.099	mg/Kg	1	2/6/2015 1:02:10 AM	17567
Surr: 4-Bromofluorobenzene	116	80-120	%REC	1	2/6/2015 1:02:10 AM	17567

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 5 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1502143

Date Reported: 2/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-6 Project: CoP SJ 28-6 #207M

Lab ID: 1502143-006

Matrix: SOIL

Collection Date: 2/3/2015 8:22:00 AM Received Date: 2/4/2015 8:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/6/2015 6:52:23 PM	17564
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/6/2015 6:52:23 PM	17564
Surr: DNOP	97.2	63.5-128	%REC	1	2/6/2015 6:52:23 PM	17564
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/6/2015 1:30:53 AM	17567
Surr: BFB	101	80-120	%REC	1	2/6/2015 1:30:53 AM	17567
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	2/6/2015 1:30:53 AM	17567
Toluene	ND	0.047	mg/Kg	1	2/6/2015 1:30:53 AM	17567
Ethylbenzene	ND	0.047	mg/Kg	1	2/6/2015 1:30:53 AM	17567
Xylenes, Total	ND	0.094	mg/Kg	1	2/6/2015 1:30:53 AM	17567
Surr: 4-Bromofluorobenzene	115	80-120	%REC	1	2/6/2015 1:30:53 AM	17567

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
- 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

Page 6 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1502143

10-Feb-15

Client:

Animas Environmental

Project: CoP SJ 2	28-6 #207M										
Sample ID MB-17564	SampType: MI	BLK	Test	Code: EF	A Method	8015D: Diese	el Range C	Organics			
Client ID: PBS	Batch ID: 17	564	R	unNo: 24	1136						
Prep Date: 2/4/2015	Analysis Date: 2	/6/2015	S	eqNo: 71	12630	Units: mg/Kg					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND 10										
Motor Oil Range Organics (MRO)	ND 50										
Surr: DNOP	9.0	10.00		89.7	63.5	128					
Sample ID LCS-17564	SampType: LC	SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 17	564	R	RunNo: 24	1136						
Prep Date: 2/4/2015	Analysis Date: 2	/6/2015	S	SeqNo: 71	12631	Units: mg/K	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	49 10	50.00	0	97.8	67.8	130					
Surr: DNOP	4.9	5.000		98.2	63.5	128					
Sample ID 1502134-001AMS	SampType: M	S	Test	tCode: EF	PA Method	8015D: Dies	el Range (Organics			
Client ID: BatchQC	Batch ID: 17	564	R	RunNo: 24	4136						
Prep Date: 2/4/2015	Analysis Date: 2	/6/2015	S	SeqNo: 7	12633	Units: mg/k	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	77 10	50.51	16.58	120	29.2	176					
Surr: DNOP	7.3	5.051		144	63.5	128			S		
Sample ID 1502134-001AMS	D SampType: M	SD	Tes	tCode: EF	PA Method	8015D: Dies	el Range (Organics			
Client ID: BatchQC	Batch ID: 17	7564	R	RunNo: 24	4136						
Prep Date: 2/4/2015	Analysis Date: 2	/6/2015	S	SeqNo: 7	12634	Units: mg/F	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	130 10		16.58	231	29.2	176	53.0	23	RS		
Surr: DNOP	6.1	5.030		120	63.5	128	0	0			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits J

RSD is greater than RSDlimit

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Sample pH greater than 2.

Reporting Detection Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1502143

10-Feb-15

Client:

Animas Environmental

Project:	CoP SJ 28	8-6 #207M									
Sample ID	MB-17567	SampTy	ре: МЕ	BLK	Tes	Code: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	PBS	Batch	ID: 17	567	R	RunNo: 2	4122				
Prep Date:	2/4/2015	Analysis Da	ate: 2/	5/2015	S	SeqNo: 7	11439	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 940	5.0	1000		94.1	80	120			
Sample ID	LCS-17567	SampTy	mpType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	LCSS	Batch	Batch ID: 17567 RunNo: 24122								
Prep Date:	2/4/2015	Analysis Da	ate: 2/	5/2015	8	SeqNo: 7	11440	Units: mg/l	⟨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	5.0	25.00	0	105	64	130			
Surr: BFB		1100		1000		106	80	120			
Sample ID	1502134-001AMS	SampTy	/pe: M \$	3	Tes	tCode: E	PA Method	8015D: Gas	oline Rang	е	
Client ID:	BatchQC	Batch	ID: 17	567	F	RunNo: 2	4122				
Prep Date:	2/4/2015	Analysis Da	ate: 2/	5/2015	8	SeqNo: 7	11445	Units: mg/l	≺g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	35	4.8	24.20	2.871	134	47.9	144			
Surr: BFB		1700		968.1		176	80	120			S
Sample ID	1502134-001AMSI	SampT	/pe: M \$	SD	Tes	tCode: E	PA Method	8015D: Gas	oline Rang	е	
Client ID:	BatchQC	Batch	ID: 17	567	F	RunNo: 2	4122				
Prep Date:	2/4/2015	Analysis Da	ate: 2/	5/2015	5	SeqNo: 7	11446	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	31	4.9	24.27	2.871	117	47.9	144	11.9	29.9	
Surr: BFB		1300		970.9		136	80	120	0	0	S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2.
- Reporting Detection Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1502143

10-Feb-15

Client:

Animas Environmental

Project:

CoP SJ 28-6 #207M

Sample ID MB-17567	SampT	ype: ME	BLK	Test									
Client ID: PBS	Batch	Batch ID: 17567			RunNo: 2	4122							
Prep Date: 2/4/2015	Analysis D	Analysis Date: 2/5/2015 SeqNo: 711478				11478	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.050											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120						

Sample ID LCS-17567	SampT	ype: LC	S	Tes									
Client ID: LCSS	Batch	n ID: 17	567	F	RunNo: 2								
Prep Date: 2/4/2015	Analysis D)ate: 2/	2/5/2015 SeqNo: 711479 U				Units: mg/Kg						
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit				HighLimit	%RPD	RPDLimit	Qual					
Benzene	1.1	0.050	1.000	0	112	80	120						
Toluene	1.1	0.050	1.000	0	108	80	120						
Ethylbenzene	1.1	0.050	1.000	0	113	80	120						
Xylenes, Total	3.4	0.10	3.000	0	112	80	120						
Surr: 4-Bromofluorobenzene	1.2		1.000		122	80	120			S			

Sample ID 1502134-002AMS	SampT	уре: М	3	Tes								
Client ID: BatchQC	Batch	n ID: 17	567	F								
Prep Date: 2/4/2015	Analysis D	Date: 2/	5/2015	8	SeqNo: 7	11486	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.048	0.9634	0	114	69.2	126					
Toluene	1.1	0.048	0.9634	0.01067	110	65.6	128					
Ethylbenzene	1.1	0.048	0.9634	0	116	65.5	138					
Xylenes, Total	3.3	0.096	2.890	0.01633 115 63			139					
Surr: 4-Bromofluorobenzene 1.2			0.9634		123	80	120			S		

Sample ID 1502134-002AM	SD SampTy	pe: MS	SD	TestCode: EPA Method 8021B: Volatiles										
Client ID: BatchQC	Batch	ID: 17	567	R	RunNo: 24122									
Prep Date: 2/4/2015	Analysis Da	Analysis Date: 2/5/2015 SeqNo: 711487						Units: mg/Kg						
Analyte	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Benzene	1.2	0.048	0.9643	0	121	69.2	126	5.75	18.5					
Toluene	1.1	0.048	0.9643	0.01067	114	65.6	128	3.34	20.6					
Ethylbenzene	1.2	0.048	0.9643	0	121	65.5	138	4.35	20.1					
Xylenes, Total	3.4	0.096	2.893	0.01633	118	63	139	2.90	21.1					
Surr: 4-Bromofluorobenzene	1.2		0.9643		121	80	120	0	0	S				

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.
- RL Reporting Detection Limit

Page 9 of 9



Hall Environmenta! Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.cam

Sample Log-In Check List

Client Name Animas Environmental Work Order Number: 1502143 RoptNo: 1 Received by/date: Logged By: **Ashley Gallegos** 2/4/2015 8:30:00 AM Completed By: Ashley Gallegos 2/4/2015 11:07:17 AM Reviewed By: AT 02/04/15 Chain of Custody Not Present ✓ 1 Custody seals intact on sample bottles? No 🗌 Not Present Yes V 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes V No NA NA 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No Yes V Sample(s) in proper container(s)? No 🗌 No Yes V 7. Sufficient sample volume for indicated test(s)? No Yes V 8. Are samples (except VOA and ONG) properly preserved? No V NA I Yes 9. Was preservative added to bottles? No VOA Vials V No 🗌 10. VOA vials have zero headspace? Yes Yes -No V 11. Were any sample containers received broken? # of preserved bottles checked Yes V for pH: 12. Does paperwork match bottle labels? No | (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? No 🗌 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes V No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date Good

C	hain	-of-Cu	stody Record	Tum-Around Time:				10					_			-					
Client:	Animas	Environ	mental Semias, LLC	¥ Standard				100			1000								NT		
				Project Name	9:		1		100			w.hal									
Mailing	Address	:604 W	V. Pinon St		28-6#	207M		49	01 H								M 87	109			
Ta	HAMINA	MN, NO	87401	Project #:				Te	1. 50	5-34	5-3	975	F	Fax	505-	-345	410	7			
Phone	#: 5	05-51	64-2281	1								A	nal	ysis	Req	ues	t				
	r Fax#:			Project Mana	iger:			3	0					3		-			T	\top	T
	Package:		☐ Level 4 (Full Validation)	E. Skyles				+ TPH (Gas only)	DRO / MRO)			SIMS)		PO4,SC	PCB's						
Accred				Sampler: E	Sky Les/	C. Lumeman	循	H	10/	=	=	20 8		102	3082						9
O NEL	AP	□ Othe		On Ice:	Yes '	□ _c No	+ TMB's (8021)	+	RO	18.	9	8270	**	03,0	8/8		(A)				0
□ EDD	(Type)			Sample Tem	perature: Zr	4	34	BE.	9	pd 4	bo 5	0 0	stals	Ž	ide	(A	2				2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1502143	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
3/15	9:10	mi	SC-1	1-402.	col	-001	X		X												
3/15	8:12	Sail	Sc-2	1-402	corl	-002	X		X												
3 15	8:18	Snil	80-3	1-402.	cool	-003	X		X												
3/15	8:15	Smil	SC-4	1-402.	col	-004	X		X												
3 15	9:15	gril	S05	1-402.	conlo	-005	X		X												
	8:22	Gn!	Sc-4	1-402.	دها	-000	X		X					1				4	+	+	-
											_									_	
							+		-	-					_			\dashv	+	+	+
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1	f necessary.	samples subt	nitted to Hall Environmental may be sub-	es. This serves as notice of the	is possi	bility. /	Any su	b-cont	racted	data	will be	e clear	y nota	ited on	the ar	nalytica	report				