

Soil "Final" C-141 & Initial Ground Water Investigation

Date: 1/26/2016

District 1 ' 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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

OIL CONS. DIV DIST. 3

1.5- 8

NOV 3 0 2015 Form C-141 Revised August 8, 2011

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

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y Whom?	Lindsay	Dumas	60,0		_	Date and H	Hour 3/26/2015	at 4:49pr	n		- A.	
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Animas Environmental Services, LLC



August 24, 2015

Lindsay Dumas ConocoPhillips San Juan Business Unit (505) 599-4089

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

RE: Final Excavation Report San Juan 28-6 #79 Rio Arriba County, New Mexico

Dear Ms. Dumas:

On April 2 and April 7, 2015, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits at the ConocoPhillips (COPC) San Juan 28-6 #79 well tie pipeline, located in Rio Arriba County, New Mexico. The release was associated with a reduction in line pressure. The final excavation was completed by COPC contractors while AES was at the location on April 7, 2015.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-6 #79 Well Tie Pipeline Location – NW¼ SW¼, Section 11, T27N, R6W, Rio Arriba County, New Mexico Release Location Latitude/Longitude – N36.58613 and W107.44110, respectively Land Jurisdiction – Bureau of Land Management Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, April 2015

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 40 based on the following factors: 604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 280 Durango, CO 81301 970-403-3084

www.animasenvironmental.com

Lindsay Dumas San Juan 28-6 #79 Final Excavation Report August 24, 2015 Page 2 of 5

- Depth to Groundwater: During field sampling activities, AES determined depth to groundwater was at approximately 5 feet below ground (bgs). (20 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: The release occurred in the main channel of Carrizo Wash. (20 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of COPC on February 9, 2015, and on April 2 and April 7, 2015, Dylan Davis of AES completed excavation field work. Field sampling activities included collection of seven confirmation composite soil samples from the walls of the excavation. The area of the final excavation measured approximately 30 feet by 32 feet by 8 feet deep. Sample locations and final excavation extents are presented on Figure 2.

2.0 Soil Sampling

Seven composite samples (SC-1 through SC-7) were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). All samples collected during the excavation clearance were also 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

Lindsay Dumas San Juan 28-6 #79 Final Excavation Report August 24, 2015 Page 3 of 5

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 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On April 2 and April 7, 2015, final excavation field screening results for VOCs via OVM ranged from 0.2 ppm in SC-6 up to 41.9 ppm in SC-2. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-2, SC-3, and SC-5 through SC-7 up to 20.6 mg/kg in SC-1. Results are included below in Table 1 and on Figure 3. The AES Field Sampling Reports are attached.

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
NMO	CD Action Lev	el*	100	100
SC-1	4/2/15	1 to 8	0.9	20.6
SC-2	4/2/15	1 to 8	41.9	<20.0
SC-3	4/2/15	1 to 8	3.8	<20.0
SC-4	4/2/15	1 to 8	2.8	22.0
SC-5	4/7/15	1 to 8	1.7	<20.0
SC-6	4/7/15	1 to 8	0.2	<20.0
SC-7	4/7/15	1 to 8	0.8	<20.0

Table 1. Soil Field VOCs and TPH Results San Juan 28-6 #79 Final Excavation April 2015

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

Laboratory analyses for SC-1 through SC-7 were used to confirm field sampling results from the final excavation. Benzene and total BTEX concentrations were reported below laboratory detection limits in all samples. TPH concentrations as GRO/DRO/MRO were reported below laboratory detection limits in all samples except SC-5 which was reported at 53 mg/kg. Results are presented in Table 2 and on Figure 2. The laboratory analytical reports are attached.

Lindsay Dumas San Juan 28-6 #79 Final Excavation Report August 24, 2015 Page 4 of 5

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
NMO	CD Action Le	vel*	10	50		100	
SC-1	4/2/15	1 to 8	<0.040	<0.199	<4.0	<9.8	<49
SC-2	4/2/15	1 to 8	< 0.039	<0.194	<3.9	<10	<50
SC-3	4/2/15	1 to 8	<0.037	<0.186	<3.7	<10	<50
SC-4	4/2/15	1 to 8	<0.038	<0.190	<3.8	<9.9	<49
SC-5	4/7/15	1 to 8	<0.036	<0.180	<3.6	<10	53
SC-6	4/7/15	1 to 8	<0.035	<0.175	<3.5	<10	<50
SC-7	4/7/15	1 to 8	< 0.035	<0.174	<3.5	<9.9	<49

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 28-6 #79 Final Excavation, April 2015

*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 April 2 and 7, 2015, AES completed final clearance of the excavation area associated with petroleum contaminated soils at the San Juan 28-6 #79. 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 40.

Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls of the excavation. Field TPH concentrations were also below the applicable NMOCD action level of 100 mg/kg. Laboratory analytical results from April 2 and April 7, 2015, reported benzene, total BTEX, and TPH (as GRO/DRO/MRO) concentrations in all samples below NMOCD action levels.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-6 #79, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls 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.

Lindsay Dumas San Juan 28-6 #79 Final Excavation Report August 24, 2015 Page 5 of 5

Sincerely,

David & Reve

David J. Reese Environmental Scientist

Elizabeth & Merdly

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, Final Excavation Sample Locations and Results April 2015
AES Field Sampling Report 040215
AES Field Sampling Report 040715
Hall Laboratory Analytical Report 1504168
Hall Laboratory Analytical Report 1504286

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AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-6 #79

Date: 4/2/2015

Matrix: Soil

Sample ID	Collection Date	Collection	Sample Location	(mdd)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	'n	TPH Analysts Initials
SC-1	4/2/2015	14:35	East Wall	6.0	20.6	14:55	20.0	1	DD
SC-2	4/2/2015	14:32	Southeast Wall	41.9	12.7	15:00	20.0	1	DD
SC-3	4/2/2015	17:15	West Wall	3.8	14.0	17:41	20.0	1	DD
SC-4	4/2/2015	16:08	Southwest Wal	2.8	22.0	18:28	20.0	1	DD

DF Dilution Factor

NA Not Analyzed PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Dyla Ban

AES Field Sampling Report

Animas Environmental Services, LLC



Project Location: San Juan 28-6 #79 Client: ConocoPhillips

Date: 4/7/2015

Matrix: Soil

DD	1	20.0	15:30	7.33	0.8	Northeast Wall	15:08	/7/2015
DD	1	20.0	15:15	15.3	0.2	North Wall	14:50	
DD	1	20.0	14:56	8.66	1.7	Northwest Wall	14:32	
TPH Analysts Initials	DF	TPH PQL (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	(mqq)	Sample Location	Collection Time	

Dilution Factor

Not Analyzed DF NA PQL

*TPH concentrations recorded may be below PQL. Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Dyla Ba



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

April 08, 2015

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

OrderNo.: 1504168

Dear Emilee Skyles:

RE: CoP SJ 28-6 #79

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/4/2015 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1504168

Date Reported: 4/8/2015

4/7/2015 10:39:53 AM

4/7/2015 3:54:09 PM

18527

18532

18532

18532

18532

18532

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18532

Analyst: RAA

Analyst: RAA

Hall Environmental Analysis Laboratory, Inc.

Surr: DNOP

Surr: BFB

Benzene

Toluene

Q

Ethylbenzene

Xylenes, Total

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

CLIENT:	Animas Environmental			Client Sampl	e ID: SC	2-1	
Project:	CoP SJ 28-6 #79			Collection]	Date: 4/2	2/2015 2:35:00 PM	
Lab ID:	1504168-001	Matrix: So	OIL	Received 1	Date: 4/4	1/2015 8:00:00 AM	
Analyses	and the second	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA MET	HOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Ra	ange Organics (DRO)	ND	9.8	mg/Kg	1	4/7/2015 10:39:53 AM	18527
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	4/7/2015 10:39:53 AM	18527

63.5-128

4.0

80-120

0.040

0.040

0.040

0.079

80-120

90.4

ND

85.6

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98.2

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mg/Kg

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

ualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte d
	Е	Value above quantitation range	Н	Holding t
	J	Analyte detected below quantitation limits	ND	Not Deter
	0	RSD is greater than RSDlimit	Р	Sample p
	R	RPD outside accepted recovery limits	RL	Reporting
	S	Spike Recovery outside accepted recovery limits		

- nalyte detected in the associated Method Blank olding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit Page
- Sample pH Not In Range
 - Reporting Detection Limit

Page 1 of 7

Lab Order 1504168

Date Reported: 4/8/2015

4/7/2015 4:22:54 PM

4/7/2015 4:22:54 PM

4/7/2015 4:22:54 PM

4/7/2015 4:22:54 PM

1

1

1

1

18532

18532

18532 18532

Hall Environmental Analysis Laboratory, Inc.

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

CLIENT: Animas Environmental Project: CoP SJ 28-6 #79 Lab ID: 1504168-002	Matrix:	SOIL	Client Sampl Collection	e ID: SC Date: 4/2 Date: 4/4	2-2 2/2015 2:32:00 PM 4/2015 8:00:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS	1.1.1.1.1	25 pur st	nes In	Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2015 11:06:56 AM	18527
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2015 11:06:56 AM	18527
Surr: DNOP	89.2	63.5-128	%REC	1	4/7/2015 11:06:56 AM	18527
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/7/2015 4:22:54 PM	18532
Surr: BFB	87.4	80-120	%REC	1	4/7/2015 4:22:54 PM	18532
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.039	mg/Kg	1	4/7/2015 4:22:54 PM	18532

0.039

0.039

0.077

80-120

ND

ND

ND

97.3

mg/Kg

mg/Kg

mg/Kg

%REC

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 2 of 7
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 2 01 7
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Lab Order 1504168

Date Reported: 4/8/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-3

 Project: CoP SJ 28-6 #79
 Collection Date: 4/2/2015 5:15:00 PM

 Lab ID: 1504168-003
 Matrix: SOIL
 Received Date: 4/4/2015 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	E ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2015 11:34:02 AM	18527
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2015 11:34:02 AM	18527
Surr: DNOP	89.6	63.5-128	%REC	1	4/7/2015 11:34:02 AM	18527
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	4/7/2015 4:51:37 PM	18532
Surr: BFB	84.6	80-120	%REC	1	4/7/2015 4:51:37 PM	18532
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.037	mg/Kg	1	4/7/2015 4:51:37 PM	18532
Toluene	ND	0.037	mg/Kg	1	4/7/2015 4:51:37 PM	18532
Ethylbenzene	ND	0.037	mg/Kg	1	4/7/2015 4:51:37 PM	18532
Xylenes, Total	ND	0.075	mg/Kg	1	4/7/2015 4:51:37 PM	18532
Surr: 4-Bromofluorobenzene	94.4	80-120	%REC	1	4/7/2015 4:51:37 PM	18532

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 3 of
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 5 01 /
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Lab Order 1504168

Date Reported: 4/8/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas EnvironmentalProject:CoP SJ 28-6 #79Lab ID:1504168-004	Matrix:	SOIL	Client Sampl Collection I Received I	e ID: SC Date: 4/2 Date: 4/4	2-4 2/2015 4:08:00 PM 4/2015 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS		the north		Analyst	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/7/2015 12:00:54 PM	18527
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/7/2015 12:00:54 PM	18527
Surr: DNOP	90.4	63.5-128	%REC	1	4/7/2015 12:00:54 PM	18527
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA

Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	4/7/2015 5:20:23 PM	18532
Surr: BFB	84.4	80-120	%REC	1	4/7/2015 5:20:23 PM	18532
EPA METHOD 8021B: VOLATILES					Analysi	RAA
Benzene	ND	0.038	mg/Kg	1	4/7/2015 5:20:23 PM	18532
Toluene	ND	0.038	mg/Kg	1	4/7/2015 5:20:23 PM	18532
Ethylbenzene	ND	0.038	mg/Kg	1	4/7/2015 5:20:23 PM	18532
Xylenes, Total	ND	0.076	mg/Kg	1	4/7/2015 5:20:23 PM	18532
Surr: 4-Bromofluorobenzene	92.9	80-120	%REC	1	4/7/2015 5:20:23 PM	18532

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J Analyte detected below quantitation limits		ND	Not Detected at the Reporting Limit	Page 4 of 7
	0	RSD is greater than RSDlimit	nit P Sample pH Not In Range		1 age 4 01 7
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

WO#: 1504168

08-Apr-15

Hall	Environmental	Analysis	Laborato	ry, Inc.

Sample ID MB-18527	Samp ^T Batc	Type: MI	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Prep Date: 4/6/2015	Analysis [Date: 4	7/2015		SeqNo: 7	49672	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10					4	16176	State of the	41
Notor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0	in a	10.00	Since B.	89.7	63.5	128	STATES.		575
Sample ID LCS-18527	Samp	Type: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	-
Client ID: LCSS	Batc	h ID: 18	527	F	RunNo: 2	5330				
Prep Date: 4/6/2015	Analysis D	Date: 4	7/2015	5	SeqNo: 7	49674	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.3	67.8	130		37 18	
Surr: DNOP	4.7		5.000		93.2	63.5	128			

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 Not In Range
- RL Reporting Detection Limit

Page 5 of 7

WO#: 1504168

08-Apr-15

Hall Environmental Analysis Laboratory, Inc.

Client: Animas Project: CoP SJ	Environmental 28-6 #79				La an			10	
Sample ID LCS-18532	SampType:	LCS	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch ID:	18532	F	RunNo: 2	5343				
Prep Date: 4/6/2015	Analysis Date:	4/7/2015	5	SeqNo: 7	50025	Units: mg/M	(g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5	.0 25.00	0	93.1	64	130			
Surr: BFB	910	1000		91.0	80	120	8. L		15215
Sample ID MB-18532	SampType:	MBLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID:	18532	F	RunNo: 2	5343				
Prep Date: 4/6/2015	Analysis Date:	4/7/2015	5	SeqNo: 7	50026	Units: mg/k	(g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics (GRO)	ND 5	.0				143.11			200
Surr: BFB	860	1000		85.6	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank в
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH Not In Range Р
- **Reporting Detection Limit** RL

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504168

08-Apr-15

Client:	
Project:	

Animas Environmental CoP SJ 28-6 #79

Sample ID LCS-18532	Samp	Type: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 18	532	F	RunNo: 2	5343				
Prep Date: 4/6/2015	Analysis [Date: 4	7/2015	S	SeqNo: 7	50068	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	76.6	128	STR.	N. RICOLLU	11.17
Toluene	0.99	0.050	1.000	0	98.6	75	124			
Ethylbenzene	1.0	0.050	1.000	0	103	79.5	126			
Kylenes, Total	3.1	0.10	3.000	0	103	78.8	124			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID MB-18532	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles	Stand -	14
Client ID: PBS	Batc	h ID: 18	532	F	RunNo: 2	5343				
Prep Date: 4/6/2015	Analysis D	Date: 4	7/2015	S	SeqNo: 7	50069	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Benzene	ND	0.050		12.5		102 18 22 21	11 July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No. of Street	e post durin	100
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	80	120			

Qualifiers:

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

Page 7 of 7

HALL Hall Environmental ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-342 Website: w	nental Analysis Labor 4901 Hawkin Albuguergue, NM 8 5-3975 FAX: 505-345- ww.hallenvironmental	atory ns NE 7109 Sam 4107 Leons	ple Log-In Check L	ist
Client Name: Animas Environmental Work Order Nu	mber: 1504168		RcptNo: 1	
Received by/date: Ar 64/64/15				
Logged By: Anne Thorne 4/4/2015 8:00:00	AM	anne Il-	-	
Completed By: Anne Thoma 4/6/2015		an Im	-	
Reviewed By: CS 04/06/15				
Chain of Custody				i i
1. Custody seals intact on sample bottles?	Yes 🗋	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗖	Not Present	
3. How was the sample delivered?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA D	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes 🗋	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🛛	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes	No 🗹	Adamsund	-
		-	bottles checked	
12. Does paperwork match bottle labels?	Yes 🗹	No L	for pH: (<2 or >12 unles	s note
13 Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met?	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)				1,8
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🗹	
Person Notified: D	ate			
By Whom:	ia: eMail	Phone 🔲 Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:	• • • • • • • • • • • • • • • • • • •			
16. Cooler Information	Seal Data	Signed By		
1 1.0 Good Yes				

Page 1 of 1



April 10, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1504286

Dear Emilee Skyles:

RE: CoP SJ 28-6 #79

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/8/2015 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

anly

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

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Lab Order 1504286

Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-6 #79 Lab ID: 1504286-001

Client Sample ID: SC-5

Matrix: MEOH (SOIL)

Collection Date: 4/7/2015 2:40:00 PM

Received Date: 4/8/2015 6:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			1.1	Analys	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/9/2015 1:54:27 PM	18574
Motor Oil Range Organics (MRO)	53	51	mg/Kg	1	4/9/2015 1:54:27 PM	18574
Surr: DNOP	98.0	63.5-128	%REC	1	4/9/2015 1:54:27 PM	18574
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	4/9/2015 12:12:45 AM	18551
Surr: BFB	86.8	80-120	%REC	1	4/9/2015 12:12:45 AM	18551
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.036	mg/Kg	1	4/9/2015 12:12:45 AM	18551
Toluene	ND	0.036	mg/Kg	1	4/9/2015 12:12:45 AM	18551
Ethylbenzene	ND	0.036	mg/Kg	1	4/9/2015 12:12:45 AM	18551
Xylenes, Total	ND	0.072	mg/Kg	1	4/9/2015 12:12:45 AM	18551
Surr: 4-Bromofluorobenzene	96.4	80-120	%REC	1	4/9/2015 12:12:45 AM	18551

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 as
	Е	Value above quantitation range	H	Holding times for prepara
	J	Analyte detected below quantitation limits	ND	Not Detected at the Report
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

e associated Method Blank paration or analysis exceeded

eporting Limit

Page 1 of 7

Lab Order 1504286

Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

EPA MET	HOD 8015D: DIESEL RANG	E ORGANICS				Analys	st: BCN
Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch
Lab ID:	1504286-002	Matrix: N	MEOH (SC	DIL)	Received	Date: 4/8/2015 6:50:00 AM	(Crail
Project:	CoP SJ 28-6 #79				Collection	Date: 4/7/2015 2:59:00 PM	
CLIENT:	Animas Environmental			C	lient Samp	ole ID: SC-6	

EPA METHOD 8015D: DIESEL RANGE ORC	GANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/9/2015 3:15:03 PM	18574
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/9/2015 3:15:03 PM	18574
Surr: DNOP	98.1	63.5-128	%REC	1	4/9/2015 3:15:03 PM	18574
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	4/9/2015 12:41:26 AM	18551
Surr: BFB	85.7	80-120	%REC	1	4/9/2015 12:41:26 AM	18551
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.035	mg/Kg	1	4/9/2015 12:41:26 AM	18551
Toluene	ND	0.035	mg/Kg	1	4/9/2015 12:41:26 AM	18551
Ethylbenzene	ND	0.035	mg/Kg	1	4/9/2015 12:41:26 AM	18551
Xylenes, Total	ND	0.070	mg/Kg	1	4/9/2015 12:41:26 AM	18551
Surr: 4-Bromofluorobenzene	96.9	80-120	%REC	1	4/9/2015 12:41:26 AM	18551

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	od Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 2 of 7
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 2 01 7
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Lab Order 1504286

Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

 Project:
 CoP SJ 28-6 #79

 Lab ID:
 1504286-003

Matrix: MEOH (SOIL) Rece

Collection Date: 4/7/2015 3:15:00 PM

Client Sample ID: SC-7

Received Date: 4/8/2015 6:50:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/9/2015 3:41:38 PM	18574
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/9/2015 3:41:38 PM	18574
Surr: DNOP	102	63.5-128	%REC	1	4/9/2015 3:41:38 PM	18574
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	4/9/2015 1:10:03 AM	18551
Surr: BFB	84.8	80-120	%REC	1	4/9/2015 1:10:03 AM	18551
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.035	mg/Kg	1	4/9/2015 1:10:03 AM	18551
Toluene	ND	0.035	mg/Kg	1	4/9/2015 1:10:03 AM	18551
Ethylbenzene	ND	0.035	mg/Kg	1	4/9/2015 1:10:03 AM	18551
Xylenes, Total	ND	0.069	mg/Kg	1	4/9/2015 1:10:03 AM	18551
Surr: 4-Bromofluorobenzene	94.5	80-120	%REC	1	4/9/2015 1:10:03 AM	18551

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 3 of
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 5 of
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1504286

10-Apr-15

Client:	Animas E	Invironmental							
Project:	CoP SJ 2	8-6 #79							
Sample ID	MB-18574	SampType	MBLK	Tes	tCode: EPA Me	thod 8015D: Dies	el Range	Organics	a file
Client ID:	PBS	Batch ID:	18574	I	RunNo: 25386				
Prep Date:	4/8/2015	Analysis Date:	4/9/2015	:	SeqNo: 751714	Units: mg/k	۲g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10		1.00				
Iotor Oil Rang	ge Organics (MRO)	ND	50		05.5				
SUIT: DNOP		9.0	10.00		95.5	03.5 128	_	and the second	China I
Sample ID	LCS-18574	SampType	LCS	Tes	tCode: EPA Me	thod 8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch ID:	18574	F	RunNo: 25386				
Prep Date:	4/8/2015	Analysis Date:	4/9/2015	\$	SeqNo: 751806	Units: mg/k	٢g		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	49	10 50.00	0	97.1 6	67.8 130	A STATE	Ser Ser Trige	1.1.1
Surr: DNOP		4.6	5.000		92.4 6	63.5 128	din.		e Firile
Sample ID	1504286-001AMS	SampType:	MS	Tes	tCode: EPA Me	thod 8015D: Dies	el Range (Organics	
Client ID:	SC-5	Batch ID:	18574	F	RunNo: 25386				
Prep Date:	4/8/2015	Analysis Date:	4/9/2015	5	SegNo: 751808	Units: ma/k	Ka		
Analyte		Result P(SPK Ref Val	%REC Low	imit Highl imit	%RPD	RPDI imit	Qual
Diesel Range	Organics (DRO)	49	10 50.56	6.298	83.9 2	29.2 176	NICE D	RI DEITIIL	Guai
Surr: DNOP		4.7	5.056		92.7 6	33.5 128			
Sample ID	1504286-001AMSI	SampType:	MSD	Tes	tCode: EPA Met	thod 8015D: Dies	el Range (Organics	14.1
Client ID:	SC-5	Batch ID:	18574	F	RunNo: 25386				
Prep Date:	4/8/2015	Analysis Date:	4/9/2015	5	SeqNo: 751886	Units: mg/k	(g		
Analyte		Result P(OI SPK value	SPK Ref Val	%REC Low	imit Highl imit	%RPD	RPDI imit	Qual
)iesel Range (Organics (DRO)	52	10 50.40	6.298	89.9 2	29.2 176	5.78	23	Quui
Surr: DNOP		5.1	5.040		101 6	63.5 128	0	0	
Sample ID	MB-18546	SampType:	MBLK	Tes	tCode: EPA Met	thod 8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch ID:	18546	F	RunNo: 25386				
Prep Date:	4/7/2015	Analysis Date:	4/9/2015	5	SegNo: 752140	Units: %RE	с		
Analyte		Result D	OI SPK value	SPK Pof Val	%REC Loud	imit Highl imit	%PPD	RPDI imit	Qual
Surr: DNOP		10	10.00	SFR Rei val	100 €	53.5 128	MED	AFDLIIIIL	Qual
Sample ID	LCS-18546	SampType	LCS	Tes	tCode: EPA Met	thod 8015D: Dies	el Range (Organics	5 8
Client ID:	LCSS	Batch ID:	18546	F	RunNo: 25386			Junio	
Pren Date:	4/7/2015	Analysis Date:	4/9/2015		SeaNo: 752142		c		
i iop Date.	-1112010		HOLDIG		10214Z	Gritto. /JRE			
Analyte	- 18 . S	Result PC	QL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Е

J

* Value exceeds Maximum Contaminant Level.

Analyte detected below quantitation limits

- В Analyte detected in the associated Method Blank
 - Holding times for preparation or analysis exceeded Н
 - ND Not Detected at the Reporting Limit Sample pH Not In Range

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

Value above quantitation range

- Spike Recovery outside accepted recovery limits S
- **Reporting Detection Limit** RL

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Page 4 of 7

WO#: 1504286 10-Apr-15

Hall Environmen	ital Anal	lysis La	boratory,	Inc
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10 4	
10-A	P
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Client: Project:	Anima CoP S.	s Environme J 28-6 #79	ntal								
Sample ID	LCS-18546	SampT	Type: LO	cs	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	Ball A
Client ID:	LCSS	Batc	h ID: 18	546	F	RunNo: 2	5386				
Prep Date:	4/7/2015	Analysis D	Date: 4	/9/2015	5	SeqNo: 7	52142	Units: %RE	C		
Analyte	49. 1.1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1 C (1 1 1	6.6		5.000		131	63.5	128	1.		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 Not In Range
- RL Reporting Detection Limit

Page 5 of 7

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1504286 10-Apr-15

Client: Animas Project: CoP SJ	Environmental 28-6 #79			
Sample ID MB-18551	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 18551	RunNo: 25375		
Prep Date: 4/7/2015	Analysis Date: 4/8/2015	SeqNo: 751117	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	840 1000	84.0 80	120	
Sample ID LCS-18551	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	1.1.1.1.1.1.1.1
Client ID: LCSS	Batch ID: 18551	RunNo: 25375		
Prep Date: 4/7/2015	Analysis Date: 4/8/2015	SeqNo: 751118	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.00	0 97.7 64	130	State State State
Surr: BFB	900 1000	90.4 80	120	

Qualifiers:

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

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504286

10-Apr-15

Sample ID MB-18551	Samp	Туре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 18	551	F	RunNo: 2	5375		-		
Prep Date: 4/7/2015	Analysis [Date: 4/	8/2015	5	SeqNo: 7	50899	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
lenzene	ND	0.050				1.0		1.26	A STATE	114
oluene	ND	0.050								
thylbenzene	ND	0.050								
ylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000	1 53	94.8	80	120			
Sample ID LCS-18551	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	et to	
Client ID: LCSS	Batc	h ID: 18	551	F	RunNo: 2	5375				
Prep Date: 4/7/2015	Analysis [Date: 4/	8/2015	S	SeqNo: 7	50900	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	1.2	0.050	1.000	0	119	76.6	128	12.34	COLUMN TO A	100
oluene	1.1	0.050	1.000	0	115	75	124			
thylbenzene	1.2	0.050	1.000	0	117	79.5	126			
ylenes, Total	3.5	0.10	3.000	0	117	78.8	124			
0 10 0 1	10		1 000		102	00	100			

Qualifiers:

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

Page 7 of 7

Р Sample pH Not In Range

ient Name: Animas Environmental Work Order Numt		il.com		IGUN LIÐU
	ber: 1504286		ReptNo:	1
ceived by/date: 15 04/08/15				
gged By: Lindsay Mangin 4/8/2015 6:50:00 Al	M	0 ymp		
mpleled By: Lindsay Mangin 4/8/2015 7:51:01 Al	M	of ythe		
viewed By CS 04/08/15				
ain of Custody				
Custody seals intact on sample bottles?	Yes	No 🗆	Not Present	
Is Chain of Custody complete?	Yes M	No 🗌	Not Present	
How was the sample delivered?	Courier			
<u>na In</u>				
Was an attempt made to cool the samples?	Yes 🗹	No 🗆		
Were all samples received at a temperature of >0° C to 6.0°C	Yes 🔽	No 🗆		
Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
Was preservative added to bottles?	Yes 🗆	No 🗹	NA 🗆	
I. VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Vials 🗹	
. Were any sample containers received broken?	Yes []	No 🗹	# of preserved bottles checked	
Does paperwork match bottle labels?	Yes 🗹	No 🗆	for pH: (<2 o	r >12 unless noted
Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
Is it clear what analyses were requested?	Yes 🗹	No 🗆		*
. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	and the second
ecial Handling (if applicable)				
Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🔽	
Person Notified Date	• Turner and and	in the second	States .	
By Whom: Via:	🗌 eMail 📋	Phone 🗌 Fax	In Person	1 states
Regarding	Same the			- 19 -7
	and the second second		a del de care de	C.
Cooler Information				
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Animas Environmental Services, LLC



OIL CONS. DIV DIST. 3

December 4, 2015

DEC 30 2015

Lisa Hunter ConocoPhillips San Juan Business Unit (505) 258-1607

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

RE: Release Assessment Report San Juan 28-6 #79 Rio Arriba County, New Mexico

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES), at the request of ConocoPhillips (COPC), has prepared this summary of field operations and laboratory analyses associated with a release of natural gas from the San Juan 28-6 #79 well tie pipeline, which was discovered on March 26, 2015. The release consisted of an unknown quantity of natural gas and was discovered in association with a reduction in line pressure. The pipeline location is shown on the attached Topographic Site Location Map (Figure 1) and Aerial Site Map (Figure 2).

1.0 Site Information

1.1 Location

Site Name – San Juan 28-6 #79 Well Tie Pipeline Location – NW¼ SW¼, Section 11, T27N, R6W, Rio Arriba County, New Mexico Release Location Latitude/Longitude – N36.58613 and W107.44110, respectively Land Jurisdiction – Private Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, Hydropunch Locations and Results, March and May 2015

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

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

www.animasenvironmental.com

1.2 Hydrologic Information

The project falls within the USGS Hydrologic Unit Code (HUC) 140801030405, in the Martinez Canyon-Carrizo Canyon watershed. The project area is located in Carrizo Canyon Wash, an intermittent drainage which flows approximately 18 miles northwest into Canyon Largo and ultimately the perennial San Juan River near Blanco, New Mexico.

1.3 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 40 based on the following factors:

- Depth to Groundwater: During field sampling activities, AES determined depth to groundwater was approximately 5 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: The release occurred in the main channel of Carrizo Canyon Wash. (20 points)

The ranking score of 40 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

Where groundwater contamination may be of concern at oil and gas release sites, the NMOCD utilizes the New Mexico Water Quality Control Commission (WQCC) standards and regulations.

1.4 Assessment

AES was initially contacted by Lindsay Dumas of COPC on February 9, 2015, and on March 26 and 31, 2015, Emilee Skyles and Dylan Davis of AES completed the initial soil and groundwater sampling field work. In order to determine potential impact to groundwater and extent, a release assessment was conducted. Field sampling activities included collection of seven discrete soil samples from seven soil borings as well as seven groundwater samples from seven temporary monitor wells. Samples were collected in the immediate vicinity, including upstream and downstream from the pipeline in order to delineate the full extent of petroleum hydrocarbon impact on soil and groundwater associated with the January 2015 release. All U.S. Army Corps of Engineers notification and permitting was organized by COPC. Sample locations and results are presented on Figure 2.

On May 4, 2015, AES returned to the location to collect additional groundwater samples from the four temporary well locations with elevated levels of contamination noted during the first sampling event. The assessment included reinstallation of four temporary monitor wells and collection of four groundwater samples. Sample locations and results are also presented on Figure 2.

2.0 Soil Sampling

Seven soil samples were collected from seven soil borings (HP-1 through HP-7). All soil samples were field screened for volatile organic compounds (VOCs) and analyzed for total petroleum hydrocarbons (TPH). All samples 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, laboratorysupplied 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 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On March 26 and 31, 2015, release assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in HP-6 up to 1,125 ppm in HP-1. Field TPH concentrations ranged from less than 20.0 mg/kg in HP-2 and HP-6 up to 55.8 mg/kg in HP-7. Results are included below in Table 1 and on Figure 2. The AES Field Sampling Reports are attached.

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
NMO	CD Action Lev	100	100	
HP-1	3/26/15	4	1,125	NA
HP-2	3/31/15	3.5	12.9	<20.0
HP-3	3/31/15	3	0.7	20.4
HP-4	3/31/15	3	13.8	38.7
HP-5	3/31/15	3	90.2	23.0
HP-6	3/31/15	5	0.0	<20.0
HP-7	3/31/15	3	0.8	55.8

Table 1.	Soil Field Sampling VOCs and TPH Results
San Jua	n 28-6 #79 Well Tie Pipeline, March 2015

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

Laboratory analyses for all soil samples were used to confirm field sampling results. Benzene, total BTEX, and TPH (as GRO/DRO) concentrations were reported at 0.68 mg/kg, 3.69 mg/kg, and 7.5 mg/kg, respectively, in HP-1, while all concentrations were reported below detection limits in HP-2 though HP-7. Results are presented in Table 2 and on Figure 2. The laboratory analytical report is attached.

San Juan 28-6 #79 Well Tie Pipeline, March 2015						
Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMOC	CD Action Le	vel*	10	50	10	00
HP-1	3/26/15	4	0.68	3.69	7.5	<10
HP-2	3/31/15	3.5	<0.048	<0.239	<4.8	<9.5
HP-3	3/31/15	3	< 0.049	<0.244	<4.9	<9.5

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 28-6 #79 Well Tie Pipeline, March 2015

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
HP-4	3/31/15	3	< 0.047	<0.236	<4.7	<9.9
HP-5	3/31/15	3	<0.049	<0.244	<4.9	<9.8
HP-6	3/31/15	5	<0.048	<0.240	<4.8	<10
HP-7	3/31/15	3	< 0.048	<0.239	<4.8	<10

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

3.0 Groundwater Sampling

A total of 11 groundwater samples were collected from seven temporary monitor wells (HP-1 through HP-7) during the assessments in March and May 2015. On March 26, March 31, and May 4, 2015, AES installed temporary monitor wells at predetermined locations (HP-1 through HP-7) with a hand auger and hydropunch screen. The screen in each temporary well was advanced to the capillary fringe and driven to a depth of approximately 7 feet below ground surface (bgs). The internal slotted screen of the hydropunch was set across the groundwater table at depths ranging from 3 to 5 feet bgs and left in place to allow groundwater to infiltrate and reach equilibrium. Groundwater samples were collected from the temporary wells using ½-inch disposable bailers and were submitted for laboratory analysis. An interface probe was used to determine depth to water. All samples were submitted to Hall for laboratory analyses of the following:

BTEX per USEPA Method 8021B.

3.1 Laboratory Analytical Results

On March 26 and 31, 2015, laboratory analytical results for groundwater samples HP-1 and HP-5 indicated that dissolved phase concentrations exceeded the applicable WQCC standards for the following constituents:

- Benzene exceeded the WQCC standard of 10 micrograms per liter (μg/L) with concentrations of 3,900 μg/L (HP-1) and 4,300 μg/L (HP-5);
- Toluene exceeded the WQCC standard of 750 μg/L with concentrations of 8,100 μg/L (HP-1) and 3,200 μg/L (HP-5); and
- Xylenes exceeded the WQCC standard of 620 μg/L with concentrations of 6,100 μg/L (HP-1) and 2,500 μg/L (HP-5).
Lisa Hunter San Juan 28-6 #79 Release Assessment Report December 4, 2015 Page 6

All other groundwater samples (HP-2, HP-3, HP-4, HP-6, and HP-7) were either below detection limits or WQCC standards, with the exception of benzene concentrations of 33 μ g/L (HP-2) and 49 μ g/L (HP-4).

On May 4, 2015, additional groundwater samples (HP-1, HP-2, HP-4, and HP-5) were collected at the request of COPC representative Lindsay Dumas. With the exception of HP-2, groundwater results indicated a significant decrease in concentrations of BTEX components in all samples, with toluene, ethylbenzene, and xylenes reported below detection limits or WQCC standards. BTEX concentrations increased in HP-2 between sampling events, with benzene rising above WQCC standards. Changes in benzene concentrations for HP-1, HP-4, and HP-5 are summarized below:

- HP-1: decreased from 3,900 μg/L to 140 μg/L (96 percent decrease);
- HP-4: decreased from 49 µg/L to below detection limit (<4.0 µg/L); and
- HP-5: decreased from 4,300 μg/L to 200 μg/L (95 percent decrease).

Benzene concentrations remained above WQCC standards in HP-1, HP-2, and HP-5. Laboratory analytical results are included in Table 3 and on Figure 2.

	11.	Depth to			Ethyl-	
Sample ID	Date Sampled	Water (ft bgs)	Benzene (μg/L)	Toluene (μg/L)	Benzene (µg/L)	Xylenes (µg/L)
WQ	CC Standards		10	750	750	620
UD 1	3/26/15	4	3,900	8,100	570	6,100
HP-1	5/4/15	4	140	<2.0	3.3	18
	3/31/15	3	33	<2.0	<2.0	11
HP-Z	5/4/15	3	160	3.1	5.1	47
HP-3	3/31/15	3	<2.0	<2.0	<2.0	<4.0
	3/31/15	3	49	2.1	<2.0	16
HP-4	5/4/15	3	<2.0	<2.0	<2.0	<4.0
	3/31/15	3	4,300	3,200	350	2,500
HP-5	5/4/15	3	200	<2.0	<2.0	<4.0
HP-6	3/31/15	4.5	<2.0	<2.0	<2.0	<4.0
HP-7	3/31/15	3	<2.0	<2.0	<2.0	<4.0

Table 3. Groundwater Laboratory Analytical Results – Benzene, Toluene, Ethylbenzene, and Xylenes

Lisa Hunter San Juan 28-6 #79 Release Assessment Report December 4, 2015 Page 7

4.0 Conclusions and Recommendations

On March 26 and 31, 2015, AES conducted a release assessment of petroleum contaminated soils associated with a historic release of produced water and condensate at the San Juan 28-6 #79 Well Tie Pipeline. 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 40.

Release assessment field sampling results above the NMOCD action level of 100 ppm VOCs were reported in HP-1. However, all soil field sampling results were below the NMOCD action level of 100 mg/kg TPH. The highest VOC concentration was reported in HP-1 with 1,225 ppm, while the highest TPH concentration was reported in HP-7 at 55.8 mg/kg. Laboratory analyses for all samples 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 all samples. TPH concentrations as GRO/DRO were also all below the NMOCD action level of 100 mg/kg.

On March 26 and 31, 2015, seven groundwater samples (HP-1 through HP-7) were collected from the immediate vicinity of the release location and surrounding area. Laboratory analytical results showed dissolved phase benzene above the New Mexico WQCC standard in HP-1, HP-2, HP-4, and HP-5, and dissolved phase toluene and xylenes above the applicable WQCC standards in HP-1 and HP-5. The highest benzene concentration was reported 3,900 μ g/L in HP-1. Depth to groundwater was measured at 4 feet bgs.

On May 4, 2015, AES collected an additional four samples in the vicinity of the release area (HP-1, HP-2, HP-4, and HP-5). Laboratory analytical results showed significant decreases in dissolved phase benzene, toluene, and xylenes; however concentrations were above the applicable New Mexico WQCC standard for benzene in HP-1, HP-2 and HP-5. The highest benzene concentration was reported in HP-5 with 200 μ g/L. BTEX concentrations in HP-4 were reported below detection limits and applicable WQCC standards.

Based on final field sampling and laboratory analytical results of the release assessment at the San Juan 28-6 #79 Well Tie Pipeline, continued downgradient delineation of hydrocarbon impacted groundwater is recommended. In addition, quarterly groundwater monitoring and sampling is recommended in HP-1, HP-2, HP-4, and HP-5 until 8 consecutive quarters of laboratory concentrations below WQCC standards is achieved.

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

Lisa Hunter San Juan 28-6 #79 Release Assessment Report December 4, 2015 Page 8

Sincerely,

Sinh Sy L

Emilee Skyles Geologist/Project Lead

Elizabeth V Mendly

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, Hydropunch Locations and Results, March and May 2015 AES Field Sampling Report 032615 AES Field Sampling Report 033115 Hall Laboratory Analytical Report 1503C73 Hall Laboratory Analytical Report 1504075 Hall Laboratory Analytical Report 1504213 Hall Laboratory Analytical Report 1505140

R:\Animas 2000\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2015 Projects\ConocoPhillips\SJ 28-6 #79\Groundwater Investigation\San Juan 28-6 #79 Release Assessment Report 120415.docx



FIGURE 2	AERIAL SITE MAP, HYDROPUNCH LOCATIONS AND RESULTS MARCH AND MAY 2015 Concorbillins SAN JUAN 28-6 #79 PIPELINE RELEASE NAY 3WAS, SECTION 11, TZN, REW RUX 5WAS, SECTION 11, TZN, REW	AES C	DRAWN BY: DATE DRAWN: C. Lameman April 7, 2015 REVISIONS BY: DATE REVISED: O. Dougi December 19, 2015 CHECKED BY: DATE CHECKED: E. Skylis	APPROVED BY: E. McNally E. McNally December 09, 2015 <u>LEGEND</u> SAMPLE LOCATIONS - PURIED PIPELINE	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				E DOTTORI	
Sompling Results	Date OWH- (mm/ (mm/kg) TPH Date OWH- (mm/kg) TPH TSK15 1.13 MM TSK15 1.23 -200 TS115 0.22 -200 TS115 0.22 230 TS115 0.22 230	31/15 0.0 <20.0 ED 55.8 ED 10 55.8 ED 10 55.8 ED 10 55.8 ED 10 10 Taylor 10 10 ED 100 10	10 13 10 124 4.3 65 124 4.3 65 124 4.3 65 124 4.3 65 124 4.3 65 124 4.3 65 124 4.3 65 125 4.4 79 126 4.4 61 120 4.8 61 123 4.8 61 123 4.8 61	BURIE CONTRACTOR	
Field Soil	Sample ID MMOCDACTIO HP1_64 3 HP2_633 3 HP3_633 3 HP3_633 3 HP5_633 3 HP5_633 3	Soli Laboratory Analy Sample ID Date Benzene T MMOCD ACTION LEVEL 20	HP-1@ 3 3/31/15 0.088 HP-2@ 3,5 3/31/15 0.088 HP-3@ 3,5 3/31/15 0.049 HP-3@ 3,7 3/31/15 0.0049 HP-4@ 3 3/31/15 0.0049 HP-6@ 5 3/31/15 0.0048 of HP-6@ 5 3/31/15 0.0048 of MP-6@ 5 3/31/15 0.0048 of	80150.	

AES Field Sampling Report

Animas Environmental Services, LLC



.

Project Location: San Juan 28-6 #79 Client: ConocoPhillips

Date: 3/26/2015

Matrix: Soil

	TPH	Analyzed for	Not ,	1	1,125	10:14	3/26/2015	HP-1
Initials		(mg/kg)	Time	(mg/kg)	(ppm)	Time	Date	Sample ID
Analysts		TPH PQL	Analysis	Field TPH*	MVO	Collection	Collection	
HdT			Field TPH					
TPH Analysts Initials		TPH PQL (mg/kg)	Field TPH Analysis Time	*	Field TPH [*] (mg/kg)	OVM Field TPH: (ppm) (mg/kg)	Collection OVM Field TPH ⁻ Time (ppm) (mg/kg)	Collection Collection OVM Field TPH ⁻ Date Time (ppm) (mg/kg)

Dilution Factor DF Not Analyzed

*Field TPH concentrations recorded may be below PQL. Practical Quantitation Limit PQL

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Dyle Bar

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-6 #79

Date: 3/31/2015

Matrix: Soil

	Collection	Colloction	DVAN	Ciold TDU*	Field TPH			TPH
Sample ID	Date	Time	(mdd)	(mg/kg)	Time	(mg/kg)	DF	Initials
HP-2	3/31/2015	11:27	12.9	17.7	12:03	20.0	1	DD
HP-3	3/31/2015	11:57	0.7	20.4	12:42	20.0	1	DD
HP-4	3/31/2015	12:45	13.8	38.7	14:10	20.0	1	DD
HP-5	3/31/2015	13:41	90.2	23.0	15:00	20.0	1	DD
HP-6	3/31/2015	14:57	0.0	19.0	15:57	20.0	1	DD
HP-7	3/31/2015	15:05	0.8	55.8	16:04	20.0	1	DD

- **Dilution Factor**
 - Not Analyzed
- Practical Quantitation Limit DF NA PQL
- *Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Dylo Bau

•



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

March 31, 2015

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

OrderNo.: 1503C73

Dear Emilee Skyles:

RE: CoP SJ 28-6 # 79

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/27/2015 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1503C73

Date Reported: 3/31/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

CoP SJ 28-6 # 79 **Project:**

Client Sample ID: HP-1 @ 4'

Collection Date: 3/26/2015 10:10:00 AM

Lab ID: 1503C73-001

Matrix: MEOH (SOIL)

Received Date: 3/27/2015 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/27/2015 11:20:14 AM	18374
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2015 11:20:14 AM	18374
Surr: DNOP	95.9	63.5-128	%REC	1	3/27/2015 11:20:14 AM	18374
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	7.5	3.1	mg/Kg	1	3/27/2015 9:55:26 AM	18358
Surr: BFB	101	80-120	%REC	1	3/27/2015 9:55:26 AM	18358
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	0.68	0.031	mg/Kg	1	3/27/2015 9:55:26 AM	18358
Toluene	1.5	0.031	mg/Kg	1	3/27/2015 9:55:26 AM	18358
Ethylbenzene	0.11	0.031	mg/Kg	1	3/27/2015 9:55:26 AM	18358
Xylenes, Total	1.4	0.063	mg/Kg	1	3/27/2015 9:55:26 AM	18358
Surr: 4-Bromofluorobenzene	115	80-120	%REC	1	3/27/2015 9:55:26 AM	18358

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	1
	Е	Value above quantitation range	Н	H
	J	Analyte detected below quantitation limits	ND	N
	0	RSD is greater than RSDlimit	Р	S
	R	RPD outside accepted recovery limits	RL	F
	S	Spike Recovery outside accepted recovery limits		

Analyte detected in the associated Method Blank

Not Detected at the Reporting Limit

Sample pH Not In Range Reporting Detection Limit Page 1 of 18

Holding times for preparation or analysis exceeded

Lab Order 1503C73

Date Reported: 3/31/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental		C	lient Sample I	D: HI	P-1	
Project: CoP SJ 28-6 # 79			Collection Da	te: 3/2	26/2015 11:15:00 AM	
Lab ID: 1503C73-002	Matrix:	AQUEOUS	Received Da	te: 3/2	27/2015 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				1	Analyst:	LGT
Fluoride	ND	0.50	mg/L	5	3/27/2015 10:51:01 AM	R25117
Chloride	3.4	2.5	mg/L	5	3/27/2015 10:51:01 AM	R25117
Nitrogen, Nitrite (As N)	ND	0.50	mg/L	5	3/27/2015 10:51:01 AM	R25117
Bromide	ND	0.50	mg/L	5	3/30/2015 8:50:22 PM	R25181
Nitrogen, Nitrate (As N)	ND	0.50	mg/L	5	3/27/2015 10:51:01 AM	R25117
Phosphorus, Orthophosphate (As P)	ND	2.5	mg/L	5	3/27/2015 10:51:01 AM	R25117
Sulfate	22	2.5	mg/L	5	3/27/2015 10:51:01 AM	R25117
EPA METHOD 6010B: DISSOLVED MET	TALS				Analyst:	JLF
Calcium	72	1.0	mg/L	1	3/27/2015 1:36:47 PM	R25123
Magnesium	8.9	1.0	mg/L	1	3/27/2015 1:36:47 PM	R25123
Potassium	1.8	1.0	mg/L	1	3/27/2015 2:41:28 PM	R25123
Sodium	110	10	mg/L	10	3/27/2015 1:38:32 PM	R25123
SM2510B: SPECIFIC CONDUCTANCE					Analyst:	JRR
Conductivity	800	0.010	µmhos/cm	1	3/27/2015 12:24:03 PM	R25116
SM2320B: ALKALINITY					Analyst:	JRR
Bicarbonate (As CaCO3)	422.3	20.00	mg/L CaCO3	1	3/27/2015 12:24:03 PM	R25116
Carbonate (As CaCO3)	ND	2.000	mg/L CaCO3	1	3/27/2015 12:24:03 PM	R25116
Total Alkalinity (as CaCO3)	422.3	20.00	mg/L CaCO3	1	3/27/2015 12:24:03 PM	R25116
SM2540C MOD: TOTAL DISSOLVED SC	DLIDS				Analyst:	KS
Total Dissolved Solids	470	200	mg/L	1	3/30/2015 3:28:00 PM	18383

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analys	is exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 2 of 18
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 2 01 10
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report Lab Order 1503C73

Date Reported: 3/31/2015

CLIENT: Animas Environmental Client Sample ID: HP-1 CoP SJ 28-6 # 79 **Project:** Collection Date: 3/26/2015 11:00:00 AM Lab ID: 1503C73-003 Matrix: AQUEOUS Received Date: 3/27/2015 7:30:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch EPA METHOD 8260B: VOLATILES Analyst: DJF 3900 Benzene 200 µg/L 200 3/27/2015 1:51:38 PM R25121 Toluene 8100 200 µg/L 200 3/27/2015 1:51:38 PM R25121 Ethylbenzene 570 200 µg/L 200 3/27/2015 1:51:38 PM R25121 Methyl tert-butyl ether (MTBE) ND 2.0 2 µg/L 3/27/2015 12:44:20 PM R25121 1.2.4-Trimethylbenzene 280 200 µg/L 200 3/27/2015 1:51:38 PM R25121 1,3,5-Trimethylbenzene 150 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 1,2-Dichloroethane (EDC) ND 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 1,2-Dibromoethane (EDB) ND 2.0 2 µg/L 3/27/2015 12:44:20 PM R25121 Naphthalene 7.7 4.0 µg/L 2 3/27/2015 12:44:20 PM R25121 1-Methylnaphthalene ND 8.0 2 3/27/2015 12:44:20 PM R25121 µg/L ND 2-Methylnaphthalene 8.0 2 µg/L 3/27/2015 12:44:20 PM R25121 Acetone ND 20 2 µg/L 3/27/2015 12:44:20 PM R25121 Bromobenzene ND 2.0 2 3/27/2015 12:44:20 PM R25121 µg/L Bromodichloromethane ND 2 2.0 µg/L 3/27/2015 12:44:20 PM R25121 Bromoform ND 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 Bromomethane ND 6.0 2 3/27/2015 12:44:20 PM R25121 µg/L 2-Butanone ND 20 µg/L 2 3/27/2015 12:44:20 PM R25121 Carbon disulfide ND 20 2 3/27/2015 12:44:20 PM R25121 µg/L Carbon Tetrachloride 2.0 ND 2 3/27/2015 12:44:20 PM R25121 µg/L Chlorobenzene ND 2.0 2 µg/L 3/27/2015 12:44:20 PM R25121 Chloroethane ND 4.0 2 3/27/2015 12:44:20 PM R25121 µg/L Chloroform 2.0 2 ND µg/L 3/27/2015 12:44:20 PM R25121 Chloromethane ND 6.0 µg/L 2 3/27/2015 12:44:20 PM R25121 2-Chlorotoluene ND 20 2 µg/L 3/27/2015 12:44:20 PM R25121 4-Chlorotoluene ND 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 cis-1.2-DCE ND 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 ND cis-1,3-Dichloropropene 20 2 3/27/2015 12:44:20 PM R25121 µg/L 1,2-Dibromo-3-chloropropane ND 4.0 µg/L 2 3/27/2015 12:44:20 PM R25121 Dibromochloromethane ND 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 Dibromomethane ND 20 2 3/27/2015 12:44:20 PM R25121 µg/L ND 2 1,2-Dichlorobenzene 2.0 µg/L 3/27/2015 12:44:20 PM R25121 1,3-Dichlorobenzene ND 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 1.4-Dichlorobenzene ND 2.0 3/27/2015 12:44:20 PM R25121 2 µg/L 2.0 2 Dichlorodifluoromethane ND µg/L 3/27/2015 12:44:20 PM R25121 1,1-Dichloroethane ND 2.0 2 3/27/2015 12:44:20 PM R25121 µg/L 1,1-Dichloroethene ND 2.0 2 µg/L 3/27/2015 12:44:20 PM R25121 1,2-Dichloropropane ND 2.0 µg/L 2 3/27/2015 12:44:20 PM R25121 1,3-Dichloropropane ND 2.0 2 3/27/2015 12:44:20 PM µg/L R25121 2,2-Dichloropropane ND 4.0 µg/L 2 3/27/2015 12:44:20 PM R25121

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

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

- E Value above quantitation range J Analyte detected below quantitation limits
- 0 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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range RL
- Page 3 of 18
- Reporting Detection Limit

Lab Order 1503C73

Date Reported: 3/31/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Project: CoP SJ 28-6 # 79 Lab ID: 1503C73-003	Matriv	AOUFOUS	Client Sampl Collection	le ID: HP Date: 3/2	-1 6/2015 11:00:00 AM 7/2015 7:30:00 AM	
Analyses	Result	RL Qua	I Units	Date. 5/2	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst:	DJF
1 1-Dichloropropene	ND	2.0	ug/l	2	3/27/2015 12:44:20 PM	R25121
Hexachlorobutadiene	ND	2.0	ug/L	2	3/27/2015 12:44:20 PM	R25121
2-Hexanone	ND	20		2	3/27/2015 12:44:20 PM	R25121
Isopropylbenzene	45	20	ug/l	2	3/27/2015 12:44:20 PM	R25121
4-Isopropyltoluene	3.8	2.0	ug/L	2	3/27/2015 12:44:20 PM	R25121
4-Methyl-2-pentanone	ND	20	ug/l	2	3/27/2015 12:44:20 PM	R25121
Methylene Chloride	ND	6.0	ug/L	2	3/27/2015 12:44:20 PM	R25121
n-Butylbenzene	ND	6.0	ug/L	2	3/27/2015 12:44:20 PM	R25121
n-Propylbenzene	50	2.0	ug/L	2	3/27/2015 12:44:20 PM	R25121
sec-Butvlbenzene	3.3	2.0	ua/L	2	3/27/2015 12:44:20 PM	R25121
Styrene	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
tert-Butylbenzene	ND	2.0	ug/L	2	3/27/2015 12:44:20 PM	R25121
1.1.1.2-Tetrachloroethane	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
1,1,2,2-Tetrachloroethane	ND	4.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
Tetrachloroethene (PCE)	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
trans-1,2-DCE	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
trans-1,3-Dichloropropene	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
1,2,3-Trichlorobenzene	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
1,1,1-Trichloroethane	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
1,1,2-Trichloroethane	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
Trichloroethene (TCE)	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
Trichlorofluoromethane	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
1,2,3-Trichloropropane	ND	4.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
Vinyl chloride	ND	2.0	µg/L	2	3/27/2015 12:44:20 PM	R25121
Xylenes, Total	6100	300	µg/L	200	3/27/2015 1:51:38 PM	R25121
Surr: 1,2-Dichloroethane-d4	111	70-130	%REC	2	3/27/2015 12:44:20 PM	R25121
Surr: 4-Bromofluorobenzene	96.1	70-130	%REC	2	3/27/2015 12:44:20 PM	R25121
Surr: Dibromofluoromethane	95.2	70-130	%REC	2	3/27/2015 12:44:20 PM	R25121
Surr: Toluene-d8	91.8	70-130	%REC	2	3/27/2015 12:44:20 PM	R25121

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analys	is exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 4 of 18
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 4 01 18
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report Lab Order 1503C73

Date Reported: 3/31/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

CoP SJ 28-6 # 79 **Project:** Lab ID: 1503C73-004

Client Sample ID: Trip Blank **Collection Date:**

Matrix: TRIP BLANK

Received Date: 3/27/2015 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	DJF
Benzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Toluene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Ethylbenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Naphthalene	ND	2.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1-Methylnaphthalene	ND	4.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
2-Methylnaphthalene	ND	4.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Acetone	ND	10	µg/L	1	3/27/2015 2:56:50 PM	R25121
Bromobenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Bromodichloromethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Bromoform	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Bromomethane	ND	3.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
2-Butanone	ND	10	µg/L	1	3/27/2015 2:56:50 PM	R25121
Carbon disulfide	ND	10	µg/L	1	3/27/2015 2:56:50 PM	R25121
Carbon Tetrachloride	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Chlorobenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Chloroethane	ND	2.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Chloroform	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Chloromethane	ND	3.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
2-Chlorotoluene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
4-Chlorotoluene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
cis-1,2-DCE	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Dibromochloromethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Dibromomethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2-Dichlorobenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,3-Dichlorobenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,4-Dichlorobenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Dichlorodifluoromethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,1-Dichloroethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,1-Dichloroethene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2-Dichloropropane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,3-Dichloropropane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
2.2-Dichloropropane	ND	2.0	ug/L	1	3/27/2015 2:56:50 PM	R25121

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 detec
	Е	Value above quantitation range	Н	Holding times
	J	Analyte detected below quantitation limits	ND	Not Detected
	0	RSD is greater than RSDlimit	Р	Sample pH N
	R	RPD outside accepted recovery limits	RL	Reporting De
	S	Spike Recovery outside accepted recovery limits		

ted in the associated Method Blank

s for preparation or analysis exceeded

at the Reporting Limit lot In Range

tection Limit

Page 5 of 18

Lab Order 1503C73

Date Reported: 3/31/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Project: CoP SI 28-6 # 79		C	lient Samp	le ID: Tr	ip Blank	
Lab ID: 1503C73-004	Matrix: 7	FRIP BLANK	Received	Date: 3/2	27/2015 7:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	DJF
1,1-Dichloropropene	ND	1.0	ua/L	1	3/27/2015 2:56:50 PM	R25121
Hexachlorobutadiene	ND	1.0	µa/L	1	3/27/2015 2:56:50 PM	R25121
2-Hexanone	ND	10	µg/L	1	3/27/2015 2:56:50 PM	R25121
Isopropylbenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
4-Isopropyltoluene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
4-Methyl-2-pentanone	ND	10	µg/L	1	3/27/2015 2:56:50 PM	R25121
Methylene Chloride	ND	3.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
n-Butylbenzene	ND	3.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
n-Propylbenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
sec-Butylbenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Styrene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
tert-Butylbenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
trans-1,2-DCE	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,1,1-Trichloroethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,1,2-Trichloroethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Trichloroethene (TCE)	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Trichlorofluoromethane	ND	1.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
1,2,3-Trichloropropane	ND	2.0	µg/L	1	3/27/2015 2:56:50 PM	R25121
Vinyl chloride	ND	1.0	µa/L	1	3/27/2015 2:56:50 PM	R25121
Xylenes, Total	ND	1.5	ua/L	1	3/27/2015 2:56:50 PM	R25121
Surr: 1,2-Dichloroethane-d4	93.7	70-130	%REC	1	3/27/2015 2:56:50 PM	R25121
Surr: 4-Bromofluorobenzene	96.1	70-130	%REC	1	3/27/2015 2:56:50 PM	R25121
Surr: Dibromofluoromethane	96.7	70-130	%REC	1	3/27/2015 2:56:50 PM	R25121
Surr: Toluene-d8	91.6	70-130	%REC	1	3/27/2015 2:56:50 PM	R25121

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	is exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 6 of 18
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 0 01 18
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

WO#: 1503C73

31-Mar-15

Client: Animas I Project: CoP SJ 2	Environme 28-6 # 79	ental	- Tare							
Sample ID MB	Samp	Гуре: МІ	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		10.00
Client ID: PBW	Batc	h ID: R2	25117	F	RunNo: 2	5117				
Prep Date:	Analysis [Date: 3	27/2015		SeqNo: 7	42525	Units: mg/L	_		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Sample ID LCS	Samp	Type: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		a last
Client ID: LCSW	Batc	h ID: R2	5117	F	RunNo: 2	5117				
Prep Date:	Analysis [Date: 3/	27/2015	5	SeqNo: 7	42526	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.2	90	110			
Chloride	4.8	0.50	5.000	0	95.2	90	110			
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	95.3	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	98.7	90	110			
Sulfate	9.7	0.50	10.00	0	96.6	90	110			1
Sample ID 1503C73-002AMS	Samp	Гуре: М	5	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: HP-1	Batc	h ID: R2	5117	F	RunNo: 2	5117				
Prep Date:	Analysis D	Date: 3/	27/2015	5	SeqNo: 7	42528	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.0	0.50	2.500	0	118	66.1	113			S
Chloride	28	2.5	25.00	3.370	97.8	81.8	112			
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	97.7	66.4	111			
Nitrogen, Nitrate (As N)	13	0.50	12.50	0.2388	104	84	109			
Phosphorus, Orthophosphate (As P	27	2.5	25.00	0	109	69	109			
Sulfate	73	2.5	50.00	21.58	102	88.3	114			
Sample ID 1503C73-002AMS	D Samp	Type: MS	SD	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: HP-1	Batc	h ID: R2	5117	F	RunNo: 2	5117				
Prep Date:	Analysis E	Date: 3/	27/2015	5	SeqNo: 7	42529	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.0	0.50	2.500	0	119	66.1	113	0.198	20	S
Chloride	28	2.5	25.00	3.370	97.0	81.8	112	0.728	20	
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	97.3	66.4	111	0.431	20	
Nitrogen, Nitrate (As N)	13	0.50	12.50	0.2388	103	84	109	1.42	20	
Qualifiars								-		

- * 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 Not In Range
- RL Reporting Detection Limit

Page 7 of 18

2 N - 1

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503C73 31-Mar-15

Client: Project:	Animas E CoP SJ 28	nvironmer 3-6 # 79	ıtal								
Sample ID 15	03C73-002AMSD	SampT	ype: MS	SD	Tes	tCode: E	PA Method	300.0: Anion:	S		
Client ID: HP	-1	Batch	ID: R2	5117	F	RunNo: 2	5117				
Prep Date:		Analysis D	ate: 3/	27/2015	5	SeqNo: 7	42529	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Ortho Sulfate	phosphate (As P	27 72	2.5 2.5	25.00 50.00	0 21.58	108 101	69 88.3	109 114	0.728 1.03	20 20	
Sample ID ME	3	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	300.0: Anion	S		1.51
Client ID: PB	w	Batch	ID: R2	5117	F	RunNo: 2	5117				
Prep Date:		Analysis D	ate: 3/	27/2015	5	SeqNo: 7	42581	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		ND	0.10								
Chloride		ND	0.50								
Nitrogen, Nitrite (As	N)	ND	0.10								
Nitrogen, Nitrate (A	s N)	ND	0.10								
Phosphorus, Orthop	phosphate (As P	ND	0.50								
Sulfate	1990 B	ND	0.50				<u>,</u>		-		1.5
Sample ID LC	S	SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anions	5		
Client ID: LC	SW	Batch	ID: R2	5117	F	RunNo: 2	5117				
Prep Date:		Analysis D	ate: 3/	27/2015	5	BeqNo: 7	42582	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		0.51	0.10	0.5000	0	102	90	110			
Chloride		4.8	0.50	5.000	0	96.6	90	110			
Itter Alterte /A											
Nitrogen, Nitrite (As	N)	0.97	0.10	1.000	0	97.2	90	110			
Nitrogen, Nitrite (As Nitrogen, Nitrate (A	s N)	0.97	0.10	1.000 2.500	0	97.2 102	90 90	110 110			
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Orthoj	N) s N) phosphate (As P	0.97 2.5 5.0	0.10	1.000 2.500 5.000	0 0 0	97.2 102 100	90 90 90	110 110 110			
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Ortho Sulfate	s N) s N) phosphate (As P	0.97 2.5 5.0 9.8	0.10 0.10 0.50 0.50	1.000 2.500 5.000 10.00	0 0 0 0	97.2 102 100 97.8	90 90 90 90	110 110 110 110			
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Ortho Sulfate Sample ID ME	s N) s N) bhosphate (As P	0.97 2.5 5.0 9.8 SampT	0.10 0.10 0.50 0.50 /pe: ME	1.000 2.500 5.000 10.00	0 0 0 0 Tes	97.2 102 100 97.8	90 90 90 90 PA Method	110 110 110 110 300.0: Anions	3		
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Ortho Sulfate Sample ID ME Client ID: PB	s N) s N) phosphate (As P 3 W	0.97 2.5 5.0 9.8 SampT Batch	0.10 0.10 0.50 0.50 ype: ME	1.000 2.500 5.000 10.00 BLK 55181	0 0 0 Tes F	97.2 102 100 97.8 tCode: E RunNo: 2	90 90 90 90 PA Method 5181	110 110 110 110 300.0: Anions	6		
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Ortho Sulfate Sample ID ME Client ID: PE Prep Date:	s N) s N) bhosphate (As P 3 W	0.97 2.5 5.0 9.8 SampT Batch Analysis D	0.10 0.10 0.50 0.50 /pe: ME ID: R2 ate: 3/	1.000 2.500 5.000 10.00 BLK 5181 30/2015	0 0 0 Tes F	97.2 102 100 97.8 tCode: E RunNo: 2 SeqNo: 7	90 90 90 90 90 PA Method 5181 44197	110 110 110 110 300.0: Anions Units: mg/L	5		
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Ortho Sulfate Sample ID ME Client ID: PB Prep Date: Analyte	s N) s N) ohosphate (As P 3 W	0.97 2.5 5.0 9.8 SampT Batch Analysis D Result	0.10 0.10 0.50 0.50 /pe: ME ID: R2 ate: 3/ PQL	1.000 2.500 5.000 10.00 BLK 5181 30/2015 SPK value	0 0 0 Tes F SPK Ref Val	97.2 102 100 97.8 tCode: E RunNo: 2 SeqNo: 7 %REC	90 90 90 90 PA Method 5181 44197 LowLimit	110 110 110 300.0: Anions Units: mg/L HighLimit	s %RPD	RPDLimit	Qual
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Orthop Sulfate Sample ID ME Client ID: PE Prep Date: Analyte Bromide	s N) s N) phosphate (As P 3 W	0.97 2.5 5.0 9.8 SampT Batch Analysis D Result ND	0.10 0.10 0.50 0.50 ID: R2 ate: 3 / <u>PQL</u> 0.10	1.000 2.500 5.000 10.00 3LK 5181 30/2015 SPK value	0 0 0 Tes F SPK Ref Val	97.2 102 100 97.8 tCode: E RunNo: 2 SeqNo: 7 %REC	90 90 90 90 PA Method 5181 44197 LowLimit	110 110 110 300.0: Anions Units: mg/L HighLimit	s %RPD	RPDLimit	Qual
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Orthop Sulfate Sample ID ME Client ID: PB Prep Date: Analyte Bromide Sample ID LC	s N) s N) phosphate (As P 3 W S	0.97 2.5 5.0 9.8 SampT Batch Analysis D Result ND SampT	0.10 0.10 0.50 0.50 ID: R2 ate: 3/ PQL 0.10 (pe: LC	1.000 2.500 5.000 10.00 3LK 55181 30/2015 SPK value	0 0 0 Tes SPK Ref Val Tes	97.2 102 100 97.8 tCode: E RunNo: 2 SeqNo: 7 %REC	90 90 90 90 PA Method 5181 44197 LowLimit	110 110 110 300.0: Anions Units: mg/L HighLimit 300.0: Anions	s %RPD	RPDLimit	Qual
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Orthop Sulfate Sample ID ME Prep Date: Analyte Bromide Sample ID LC Client ID: LC	s N) s N) phosphate (As P 3 W S S SW	0.97 2.5 5.0 9.8 SampT Batch Analysis D Result ND SampT Batch	0.10 0.10 0.50 0.50 ID: R2 ate: 3/ PQL 0.10 /pe: LC ID: R2	1.000 2.500 5.000 10.00 3LK 30/2015 SPK value	0 0 0 Tes SPK Ref Val Tes F	97.2 102 100 97.8 tCode: E & QunNo: 2 & SeqNo: 7 %REC tCode: E & QunNo: 2	90 90 90 90 PA Method 5181 44197 LowLimit PA Method 5181	110 110 110 300.0: Anions Units: mg/L HighLimit 300.0: Anions	s %RPD	RPDLimit	Qual
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Orthop Sulfate Sample ID ME Client ID: PB Prep Date: Analyte Bromide Sample ID LC Client ID: LC Prep Date:	s N) s N) phosphate (As P 3 W S S SW	0.97 2.5 5.0 9.8 SampT Batch Analysis D Result ND SampT Batch Analysis D	0.10 0.10 0.50 0.50 ID: R2 ate: 3/ PQL 0.10 ID: R2 ID: R2 ate: 3/	1.000 2.500 5.000 10.00 3LK 55181 30/2015 SPK value 55181 30/2015	0 0 0 Tes SPK Ref Val Tes F	97.2 102 100 97.8 tCode: E RunNo: 2 SeqNo: 7 tCode: E RunNo: 2 SeqNo: 7	90 90 90 90 PA Method 5181 LowLimit PA Method 5181 44198	110 110 110 300.0: Anions Units: mg/L HighLimit 300.0: Anions Units: mg/L	s %RPD	RPDLimit	Qual
Nitrogen, Nitrite (As Nitrogen, Nitrate (A Phosphorus, Orthop Sulfate Client ID: PB Prep Date: Analyte Bromide Sample ID LC Client ID: LC Prep Date: Analyte	s N) s N) phosphate (As P 3 W S S SW	0.97 2.5 5.0 9.8 SampT Batch Analysis D Result SampT Batch Analysis D Result	0.10 0.10 0.50 0.50 ID: R2 ate: 3/ PQL 0.10 /pe: LC ID: R2 ate: 3/ PQL	1.000 2.500 5.000 10.00 3LK 55181 30/2015 SPK value 55181 30/2015 SPK value	0 0 0 Tes SPK Ref Val Tes F SPK Ref Val	97.2 102 100 97.8 tCode: E RunNo: 2 SeqNo: 7 %REC tCode: E RunNo: 2 SeqNo: 7 %REC	90 90 90 90 PA Method 5181 44197 LowLimit PA Method 5181 44198 LowLimit	110 110 110 300.0: Anions Units: mg/L HighLimit 300.0: Anions Units: mg/L HighLimit	s %RPD	RPDLimit	Qual

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 Not In Range
- RL Reporting Detection Limit

Page 8 of 18

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WO#: 1503C73

31-Mar-15

Client: Project:	Animas Environmental CoP SJ 28-6 # 79				
Sample ID MB	SampType: MBLK	TestCode: EPA Method	1 300.0: Anions		1.
Client ID: PBW	Batch ID: R25181	RunNo: 25181			
Prep Date:	Analysis Date: 3/31/2015	SeqNo: 744241	Units: mg/L		
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Bromide	ND 0.10				
Sample ID LCS	SampType: LCS	TestCode: EPA Method	300.0: Anions		1.
Client ID: LCS	W Batch ID: R25181	RunNo: 25181			
Prep Date:	Analysis Date: 3/31/2015	SeqNo: 744242	Units: mg/L		
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Bromide	2.5 0.10 2.50	0 0 102 90	110		

Qualifiers:

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

Page 9 of 18

WO#: 1503C73

31-Mar-15

Client: Animas Project: CoP SJ	Environmer 28-6 # 79	ntal								
Sample ID MB-18374 Client ID: PBS	SampT Batch	ype: ME ID: 18	BLK 374	Tes	tCode: E RunNo: 2	PA Method 5115	8015D: Dies	el Range (Organics	
Prep Date: 3/27/2015	Analysis D	ate: 3/	27/2015	5	SeqNo: 7	41645	Units: mg/h	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						1.1		1000
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.3	63.5	128		1	-
Sample ID LCS-18374	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	1.01
Client ID: LCSS	Batch	ID: 18	374	F	RunNo: 2	5115				
Prep Date: 3/27/2015	Analysis D	ate: 3/	27/2015	5	SeqNo: 7	41646	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.6	67.8	130			
Surr: DNOP	4.9		5.000		97.1	63.5	128			

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 Not In Range
- RL Reporting Detection Limit

Page 10 of 18

WO#: 1503C73 31-Mar-15

Client: Animas Project: CoP SJ	Environmental 28-6 # 79		
Sample ID MB-18358 Client ID: PBS Prep Date: 3/26/2015	SampType: MBLK Batch ID: 18358 Analysis Date: 3/27/2015	TestCode: EPA Method 8 RunNo: 25120 SeqNo: 742138	D15D: Gasoline Range Jnits: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 970 1000	96.9 80	120
Sample ID LCS-18358 Client ID: LCSS	SampType: LCS Batch ID: 18358	TestCode: EPA Method 80 RunNo: 25120)15D: Gasoline Range
Prep Date: 3/26/2015	Analysis Date: 3/27/2015	SeqNo: 742139	Jnits: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	26 5.0 25.00	0 103 64	130
Surr: BFB	870 1000	86.6 80	120

Qualifiers:

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

Page 11 of 18

QC SUMMARY REPORT

WO#: 1503C73

31-Mar-15

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Hall Environmenta	l Analysis	Laboratory,	Inc.
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0.78

Client: Anim Project: CoP	nas Environme SJ 28-6 # 79	ntal					i.			
Sample ID MB-18358	Samp	Гуре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles	1.	
Prep Date: 3/26/2015	Batc Analysis [Date: 3/	358 27/2015	r S	SeqNo: 7	42168	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050						100		
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1	-	1.000		113	80	120		Bernin	1
Sample ID LCS-18358	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	1997	-2
Client ID: LCSS	Batc	h ID: 18	358	F	RunNo: 2	5120				
Prep Date: 3/26/2015	Analysis [Date: 3/	/27/2015	5	SeqNo: 7	42169	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.2	76.6	128	1.1	$f_{i} = h_{i} = 0$	
Toluene	0.92	0.050	1.000	0	92.2	75	124			
Ethylbenzene	0.87	0.050	1.000	0	87.0	79.5	126			
Xylenes, Total	2.7	0.10	3.000	0	89.3	78.8	124			

1.000

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit

Surr: 4-Bromofluorobenzene

- 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

80

78.0

120

- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 12 of 18

Client: Animas Environmental

Project: CoP SJ 28-6 # 79

Sample ID 5ml rb	Samp	Гуре: М	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batc	h ID: R	25121	F	RunNo: 2	5121				
Prep Date:	Analysis [Date: 3	27/2015	5	SeqNo: 7	41804	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0					100	1.2		
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2.2-Dichloropropane	ND	2.0								

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
- 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 Not In Range
- RL Reporting Detection Limit

Page 13 of 18

1503C73

WO#:

31-Mar-15

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WO#: 1503C73

31-Mar-15

Client:	Animas Environmental

Project: CoP SJ 28-6 # 79

Sample ID 5ml rb	SampTy	SampType: MBLK		Tes	TestCode: EPA Method 8260B: VOLATILES					
Client ID: PBW	Batch	ID: R2	5121	F	RunNo: 25121					
Prep Date:	Analysis Da	ate: 3/	27/2015	S	SeqNo: 7	41804	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
ert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
rans-1,2-DCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.9	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	8.6		10.00		86.0	70	130			

Client ID: LCSW	Batch	1D: R2	5121	F	RunNo: 2	5121				
Prep Date:	Analysis D	ate: 3/	27/2015	5	SeqNo: 7	41806	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130	1.1		
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	20	1.0	20.00	0	98.0	70	130			

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 14 of 18

- P Sample pH Not In Range
- RL Reporting Detection Limit

WO#: 1503C73

31-Mar-15

Client:	Animas	Environmental

Project: CoP SJ 28-6 # 79

Sample ID 100nglcs200ng	anxs SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	ID: R2	5121	F	RunNo: 2	5121				
Prep Date:	Analysis D	ate: 3/	27/2015	5	SeqNo: 7	41806	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	75.6	144			-
Trichloroethene (TCE)	18	1.0	20.00	0	92.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.5	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	10		10.00		99.8	70	130			
Surr: Toluene-d8	9.4		10.00		94.1	70	130			

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 Not In Range
- RL Reporting Detection Limit

Page 15 of 18

WO#: 1503C73

31-Mar-15

Client: Project:		Animas Environmental CoP SJ 28-6 # 79	
Sample ID	МВ	SampType: MBLK TestCode: EPA Method 6010B: Dissolved Metals	+-1
Client ID:	PBW	Batch ID: R25123 RunNo: 25123	
Prep Date:		Analysis Date: 3/27/2015 SeqNo: 741820 Units: mg/L	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit C	Jual
Calcium		ND 1.0	
Aagnesium		ND 1.0	
Sodium	1.11	ND 1.0	
Sample ID	LCS	SampType: LCS TestCode: EPA Method 6010B: Dissolved Metals	
Client ID:	LCSW	Batch ID: R25123 RunNo: 25123	
Prep Date:		Analysis Date: 3/27/2015 SeqNo: 741821 Units: mg/L	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit G	Jual
Calcium		50 1.0 50.00 0 100 80 120	
Magnesium		51 1.0 50.00 0 101 80 120	
Sodium	1.11	50 1.0 50.00 0 99.3 80 120	
Sample ID	MB	SampType: MBLK TestCode: EPA Method 6010B: Dissolved Metals	
Client ID:	PBW	Batch ID: R25123 RunNo: 25123	
Prep Date:		Analysis Date: 3/27/2015 SeqNo: 741932 Units: mg/L	
Analita		Popult POL SPK value SPK Pof Val % PEC Law imit High imit % PPD PPDI imit	loud
Potassium		ND 1.0	luai
Sample ID	LCS	SampType: LCS TestCode: EPA Method 6010B: Dissolved Metals	
Client ID:	LCSW	Batch ID: R25123 RunNo: 25123	
Prep Date:		Analysis Date: 3/27/2015 SeqNo: 741933 Units: mg/L	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit C	Jual
otassium	YER, LO	50 1.0 50.00 0 99.9 80 120	

Qualifiers:

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

Page 16 of 18

WO#: 1503C73

31-Mar-15

Client: An Project: Co	nimas Environmental oP SJ 28-6 # 79				
Sample ID mb-1 Client ID: PBW Prep Date:	SampType: MBLK Batch ID: R25116 Analysis Date: 3/27/2015	TestCode: SM2320B: A RunNo: 25116 SeqNo: 743012	Ikalinity Units: mg/L CaCO3		
Analyte Total Alkalinity (as CaCO3)	Result PQL SPK value ND 20.00	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Sample ID Ics-1 Client ID: LCSW Preo Date:	SampType: LCS Batch ID: R25116 Analysis Date: 3/27/2015	TestCode: SM2320B: A RunNo: 25116 SeaNo: 743013	Units: mg/L CaCO3		
Analyte Total Alkalinity (as CaCO3)	Result PQL SPK value 78.88 20.00 80.00	SPK Ref Val %REC LowLimit 0 98.6 90	HighLimit %RPD 110	RPDLimit	Qual

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 Not In Range
- RL Reporting Detection Limit

Page 17 of 18

WO#: 1503C73 31-Mar-15

Animas Environmental **Client: Project:** CoP SJ 28-6 # 79 Sample ID MB-18383 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids Client ID: PBW Batch ID: 18383 RunNo: 25163 Prep Date: 3/27/2015 Analysis Date: 3/30/2015 SeqNo: 743511 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Total Dissolved Solids ND 20.0 Sample ID LCS-18383 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids Client ID: LCSW Batch ID: 18383 RunNo: 25163 Prep Date: 3/27/2015 Analysis Date: 3/30/2015 SeqNo: 743512 Units: mg/L

%RPD **RPDLimit** SPK value SPK Ref Val %REC HighLimit Qual Result PQL LowLimit Analyte Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

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

Page 18 of 18

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu Albu TEL: 505-345-3975 Website: www.hal	Analysi 4901 querqu FAX: 5 Ilenviro	is Laborat Hawkins ie, NM 87 505-345-4 pnmental.c	ory NE 109 San 107	nple Log-In Cl	neck List
Client Name: Animas Environmental	Work Order Number:	1503	C73		RcptNo:	1
Received by/date:	0329/15			uning 17 17		
Logged By: Lindsay Mangin	3/27/2015 7:30:00 AM			Author	Ø	
Completed By: Lindsay Mangin	3/27/2015 8:07:06 AM			Andrew Horas	Ø	
Reviewed By:	02/27/2			000		
Chain of Custody	011-111				a	
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?		Cour	ier			
Log In						
4. Was an attempt made to cool the sample	95?	Yes		No 🗌		
5. Were all samples received at a temperate	ure of >0° C to 6.0°C	Yes		No 🗌		
6. Sample(s) in proper container(s)?		Yes		No 🗆		
7. Sufficient sample volume for indicated ter	st(s)?	Yes		No 🗆		
8. Are samples (except VOA and ONG) pro	perly preserved?	Yes	-	No D		
9. Was preservative added to bottles?		Yes		-No	NA D	
FOR DISSOLVED METALS ANALYSIS	KFILTERED 125ml	OF	EXTRA	VOLUMEA	AUDED O. 4 MLHN	& FOR A GCEPTAR
10.VOA vials have zero headspace?		Yes		No 🗆	No VOA Vials	103/27
11. Were any sample containers received bro	oken?	Yes		No 🕢	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗆	for pH:	2 12 unless noted)
13. Are matrices correctly identified on Chain	of Custody?	Yes		No 🗌	Adjusted?	YES
14. Is it clear what analyses were requested?		Yes		No 🗆		Af
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by:	7
Special Handling (if applicable)						
16. Was client notified of all discrepancies wi	th this order?	Yes		No 🗌	NA 🛃	

Person Notified:	Da	ate:					
By Whom:	Vi	a:	eMail	P	hone 🗌 Fax	In Pers	on
Regarding:	A 700 BOLDAND BOAD BOAD BOAD BOAD BOAD BOAD BOAD BOA					AN ADDRESS OF A DECK	-
Client Instructions:	PERSONAL PROPERTY OF THE PARTY	-			******		-

17. Additional remarks:

18. Cooler Information

Cooler No T	emp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1 2.3	G	bood	Yes			

MENTAL	DRATORY		37109	07			อวนเท	N JA		Air Bubbles		×									oy: hindsay Dumas	4
	ABO	al.com	, NM	345-41	lest			(0	()	40V) 80828			X		-	+	-				b5 bed l	NED'
		menta	erque	505-3	Requ		S'BCB's	7808 /	səp	sos1 Pestici										X	milly	1045
	IS	wiron	nbnq	Fax	lysis	(*(PO4,5C	² 'NO ²	DN'	D, H) anoinA							1	_		1	3	192
	5	allen	- A	2	Ana	-	(CIAII	20/70	no (RCRA 8 Me	-		_		_	+	+	15			ono	2
-	N	h.ww	IS NE	397			13141	(1.40	g p	EDB (Metho				-	+	-					40	ER
-		>	awkir	5-34		-		(1.81	7 P	odteM) H9T											11.6	1-1-1
			01 H	el. 50		(0)	AM \ OS		(GF	83108 H9T	×										10	L
			49	Ť		JJA)	no seð)	HGT 4	- 38	BTEX + MTI											w#	LEAS
_			14	123		(1208) s		· 36	BTEX + MT	×				_	_	-		-		A Z R	P
	AME-DAY		した非。					D. Davis		B TEALNO	100-	-002	202								Jauly Time	02127415 07E
Time: /	d/Rus		1-90			ger:	res	- Slules	berature: Z	Preservativ Type	/ caj	VAPUTONS	HCI							10 A 15	Lubete	
Turn-Around	□ Standard	Project Name	lop 3.	Project #:		Project Mana	E. Sk	Sampler:	Sample Temp	Container Type and #	1-402.	VACIENS	3-46mL								Received by: Murthu Received py:	5
ustody Record	numental Services		W. Pinn H.	10HES W	1-2281	Team @ conocophilling . com	Level 4 (Full Validation)	ē		Sample Request ID	HP-1 e41	HP-I	1-0H 8								LSI hed by:	Lt Udeler
-of-CI	tunion		: 604	N .M	5-564	STBUE -		□ Oth		Matrix	Sail	Agrun	Aquern	8							Relipquis	P
hain	nimas		Address	minate	# 50	r Fax#: 5	Package: dard	itation	(Type)	Time	01:01	51:11	11:00								Time: Time:	17.00
0	Client		Mailing	1ª	Phone a	email of	OAVOC I			Date	3 26 15	3124615	191912								Date: Date: Date:	Zuelis



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

April 07, 2015

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

OrderNo.: 1504075

Dear Emilee Skyles:

RE: CoP SJ 28-6 # 79

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/2/2015 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1504075

Date Reported: 4/7/2015

CLIENT: Animas Environmental			Client Samp	le ID: HI	P-2	
Project: CoP SJ 28-6 # 79			Collection	Date: 3/.	31/2015 11:50:00 AM	
Lab ID: 1504075-001	Matrix:	AQUEOU	S Received	Date: 4/2	2/2015 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILE	S				Analys	t: RAA
Benzene	33	2.0	µg/L	2	4/3/2015 9:56:45 PM	R25296
Toluene	ND	2.0	µg/L	2	4/3/2015 9:56:45 PM	R25296
Ethylbenzene	ND	2.0	µg/L	2	4/3/2015 9:56:45 PM	R25296
Xylenes, Total	11	4.0	µg/L	2	4/3/2015 9:56:45 PM	R25296
Surr: 4-Bromofluorobenzene	105	80-120	%REC	2	4/3/2015 9:56:45 PM	R25296

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 7
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	rage ror /
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Lab Order 1504075

Date Reported: 4/7/2015

CLIENT: Animas Environmental			Client Sampl	e ID: HF	2-3	
Project: CoP SJ 28-6 # 79			Collection I	Date: 3/3	1/2015 12:32:00 PM	
Lab ID: 1504075-002	Matrix:	AQUEOUS	Received I	Date: 4/2	2/2015 7:00:00 AM	
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	2.0	µg/L	2	4/3/2015 10:26:01 PM	R25296
Toluene	ND	2.0	µg/L	2	4/3/2015 10:26:01 PM	R25296
Ethylbenzene	ND	2.0	µg/L	2	4/3/2015 10:26:01 PM	R25296
Xylenes, Total	ND	4.0	µg/L	2	4/3/2015 10:26:01 PM	R25296
Surr: 4-Bromofluorobenzene	97.5	80-120	%REC	2	4/3/2015 10:26:01 PM	R25296

Hall Environmental Analysis Laboratory, Inc.

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

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	i 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	Dage
0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
S	Spike Recovery outside accepted recovery limits			
	* E J O R S	 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 	* Value exceeds Maximum Contaminant Level. B E Value above quantitation range H J Analyte detected below quantitation limits ND O RSD is greater than RSDlimit P R RPD outside accepted recovery limits RL S Spike Recovery outside accepted recovery limits P	* Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method E Value above quantitation range H Holding times for preparation or analysis J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit O RSD is greater than RSDlimit P Sample pH Not In Range R RPD outside accepted recovery limits RL Reporting Detection Limit

Page 2 of 7

Lab Order 1504075

Date Reported: 4/7/2015

CLIENT: Animas Environmental	Client Sample ID: HP-4							
Project: CoP SJ 28-6 # 79			Collection	Date: 3/3	1/2015 1:00:00 PM			
Lab ID: 1504075-003	Matrix:	AQUEOUS	Received	Date: 4/2				
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	49	2.0	µg/L	2	4/3/2015 10:55:16 PM	R25296		
Toluene	2.1	2.0	µg/L	2	4/3/2015 10:55:16 PM	R25296		
Ethylbenzene	ND	2.0	µg/L	2	4/3/2015 10:55:16 PM	R25296		
Xylenes, Total	16	4.0	µg/L	2	4/3/2015 10:55:16 PM	R25296		
Surr: 4-Bromofluorobenzene	112	80-120	%REC	2	4/3/2015 10:55:16 PM	R25296		

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 3 of 7
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 5 01 7
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report Lab Order 1504075

Dab 01401 1504075

Date Reported: 4/7/2015

CLIENT: Animas EnvironmentalProject: CoP SJ 28-6 # 79Lab ID: 1504075-004	Client Sample ID: HP-5Collection Date: 3/31/2015 2:30:00 PMMatrix: AQUEOUSReceived Date: 4/2/2015 7:00:00 AM						
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES	1				Analyst	RAA	
Benzene	4300	50	µg/L	50	4/6/2015 12:41:18 PM	R25329	
Toluene	3200	50	µg/L	50	4/6/2015 12:41:18 PM	R25329	
Ethylbenzene	350	50	µg/L	50	4/6/2015 12:41:18 PM	R25329	
Xylenes, Total	2500	100	µg/L	50	4/6/2015 12:41:18 PM	R25329	
Surr: 4-Bromofluorobenzene	112	80-120	%REC	50	4/6/2015 12:41:18 PM	R25329	

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 Metho	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 4 of 7
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age + 01 /
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1504075

Date Reported: 4/7/2015

CLIENT: Animas Environmental Project: CoP SJ 28-6 # 79	Client Sample ID: HP-6 Collection Date: 4/1/2015 2:50:00 PM								
Lab ID: 1504075-005	Matrix: A	QUEOUS	Received I	Date: 4/2/2015 7:00:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 8021B: VOLATILES					Analys	t: RAA			
Benzene	ND	2.0	µg/L	2	4/6/2015 1:10:37 PM	R25329			
Toluene	ND	2.0	µg/L	2	4/6/2015 1:10:37 PM	R25329			
Ethylbenzene	ND	2.0	µg/L	2	4/6/2015 1:10:37 PM	R25329			
Xylenes, Total	ND	4.0	µg/L	2	4/6/2015 1:10:37 PM	R25329			
Surr: 4-Bromofluorobenzene	104	80-120	%REC	2	4/6/2015 1:10:37 PM	R25329			

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 5 of 7
0	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 5 01 7
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Lab Order 1504075

Date Reported: 4/7/2015

CLIENT: Animas Environmental			Client Sampl	e ID: HP	P-7	
Project: CoP SJ 28-6 # 79			Collection	Date: 4/1	/2015 2:35:00 PM	
Lab ID: 1504075-006	Matrix:	AQUEOUS	Received 1	Date: 4/2	2/2015 7:00:00 AM	1.1.2
Analyses	Result	RL Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	2.0	µg/L	2	4/4/2015 12:22:50 AM	R25296
Toluene	ND	2.0	µg/L	2	4/4/2015 12:22:50 AM	R25296
Ethylbenzene	ND	2.0	µg/L	2	4/4/2015 12:22:50 AM	R25296
Xylenes, Total	ND	4.0	µg/L	2	4/4/2015 12:22:50 AM	R25296
Surr: 4-Bromofluorobenzene	92.0	80-120	%REC	2	4/4/2015 12:22:50 AM	R25296

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 6 of 7
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 0 01 7
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504075 07-Apr-15

Client: Project:	Animas E CoP SJ 28	nvironme 8-6 # 79	ntal									
Sample ID	100NG BTEX LCS	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles			
Client ID:	LCSW	Batc	h ID: R	25296	F	RunNo: 2	5296					
Prep Date:		Analysis D	Date: 4	/3/2015	5	SeqNo: 7	48080	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	and the second second	23	1.0	20.00	0	113	80	120		The second	1	
oluene		21	1.0	20.00	0	107	80	120				
Ethylbenzene		21	1.0	20.00	0	103	80	120				
kylenes, Total		62	2.0	60.00	0	103	80	120				
Surr: 4-Brom	nofluorobenzene	24		20.00		118	80	120	. the	S. S.	a and	
Sample ID	5ML-RB	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles	a later of		
Client ID:	PBW	Batcl	h ID: R2	25296	F	RunNo: 2	5296					
Prep Date:		Analysis E	Date: 4	3/2015	S	SeqNo: 7	48095	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		ND	1.0				0/10		1.2.2.2.6.10	1	- 5 - 5-ty	
oluene		ND	1.0									
thylbenzene		ND	1.0									
ylenes, Total		ND	2.0									
Surr: 4-Brom	nofluorobenzene	18		20.00		89.7	80	120	12	And shall	10.13	
Sample ID	100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles	Seb 193	and the set	
Client ID:	LCSW	Batch	DID: R2	5329	F	RunNo: 2	5329					
Prep Date:		Analysis D	Date: 4/	6/2015	S	SeqNo: 7	49428	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
enzene		21	1.0	20.00	0	104	80	120				
oluene		19	1.0	20.00	0	95.8	80	120				
thylbenzene		19	1.0	20.00	0	92.7	80	120				
vlenes, Total		56	2.0	60.00	0	93.0	80	120				
Surr: 4-Brom	nofluorobenzene	20		20.00		102	80	120	11	2000	2015	
Sample ID	5ML-RB	SampT	уре: М	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBW	Batch	n ID: R2	5329	F	RunNo: 2	5329					
Prep Date:		Analysis D	Date: 4/	6/2015	S	SeqNo: 7	49439	Units: µg/L				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
enzene		ND	1.0		-						100	
oluene		ND	1.0									
thylbenzene		ND	1.0									
ylenes, Total		ND	2.0									
Surr: 4-Brom	ofluorobenzene	19		20.00		95.9	80	120				

Qualifiers:

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

Page 7 of 7
HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmeatal Albi TEL: 505-345-3975 Website: www.ha	Analysis Lal 4901 Haw uquerque, NI FAX: 505-3 dlenvironmer	boratory kins NE M 87109 45-4107 ntal.com	Sam	ole Log-In Check List
Client Name: Animas Environmental	Work Order Number	1504075			RcptNo: 1
Received by/date: AT	01102/15				
Logged By: Lindsay Mangin	4/2/2015 7:00:00 AM		0	ytto	
Completed By. Lindsay Mangin	4/2/2015 8:18:01 AM		A	ythes	
Reviewed By:	04/02/15		2		
Chain of Custody	110-111				
1. Custody seals intact on sample bottles?		Yes 🗌		No 🗆	Not Present
2. Is Chain of Custody complete?		Yes 🗹		No 🗌	Not Present
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the samples	\$?	Yes 🗹		No 🗆	NA 🗆
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹		No 🗆	
6. Sample(s) in proper container(s)?		Yes 🗹		No 🗌	
7. Sufficient sample volume for indicated tes	t(s)?	Yes 🗹		No 🗆	
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗸		No	
9. Was preservative added to bottles?		Yes 🗌		No 🗹	NA
10. VOA vials have zero headspace?		Yes 🗹			No VOA Vials
1. Were any sample containers received bro	ken?	Yes 🗆		No 🗹	# of preserved
12. Does paperwork match botile labels? (Note discrepancies on chain of custody)		Yes 🗹		No 🗌	for pH: (<2 or >12 unless noted
3. Are matrices correctly identified on Chain	of Custody?	Yes 🖌		No 🗌	Adjusted?
4. Is it clear what analyses were requested?		Yes M		No 🗌	Checked but
5. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹		No	Checked by.
pecial Handling (if applicable)					
16. Was client notified of all discrepancies wit	h this order?	Yes		No 🗆	NA 🗹
Person Notified	Date				
By Whom:	Via:	eMail	Phone	e 🗌 Fax	In Person
Regarding:					
Client Instructions:					
17. Additional remarks: 18. <u>Cooler Information</u> Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Sig	ned By	
1 10 Good)	es	12 M 12 M 14			

ITAL						(1	0 L	ο V) :	Air Bubbles											e d'allegos	0 D
NMEN	m M 87109	4107					(\	0/-1	mə2) 0728											hips bul	-
0 P	al.co	345-	uest					(A	0V) 80928			1								11 more	
ES	ment	505	Req		PCB's	280	8/1	səpic	bitee9 1808											000	
NIS	Niron	Fax	lysis	(*(PO4,SC	102	1,50	DN'K	D, F) enoinA	_			1			_	-			200	
27	allen - A	10	Ana	-	(CIAII	0.01	70	elete	RCRA 8 Md							-		-	-	Se	a
AA	H.WW	-397		-	(SM)	5 02	.40						-	-		-	-	-		40	270
IA	W	-345				()	.81	. t po	TPH (Meth	-						-				= 17	54
	H	. 505		(0)		N DB	05	19) (GE	12108 HqT											4	DRA
	490	Tel		(ʎ µ	no seð)) Hd	L +	- 38.	RTEX + MI	15										H .	F . 91
		12		(1208) 8	AB.	+	38.	BTEX + M	×	×	×	×	X	X		-			Rem	NUS I
	bt						O No	160 m E	HEAL No.	100-	-002	-002	-004	-900-	-00%			14 H 19 1		Upate Time	bale Time
Time:	- #9-8C		the second s	ger:	lus	04 5	Y'Yes	perature:	Preservative Type	HCC	HCQ	RC	HCC	H	[K]					INDREE	5
Turn-Around	Project Name	Project #:		Project Mana	E. Sh	Sampler: #5	On Ice:	Sample Temp	Container Type and #	3-your	3-10-1	3-40ml	3-font	3-42ml	3-40al					Received by:	Received by
Chain-of-Custody Record	ig Address: (DY W . D.men	minter NM 87-60	e# 525-564-2281	or Fax#:	C Package:	ditation	ELAP D Other)D (Type)	Time Matrix Sample Request ID	5/11:50 Jaynesse HP-2	5/12:32 Arnews HP - 3	13:00 Agreens HP-4	HTTP Armines HIP-5	1450 Agreed HP-6	1435 Aques HP-7				0	My My And By	Time: Relinquished by: 1825 Murthe 11 APLALA

ć .



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

April 10, 2015

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

OrderNo.: 1504213

Dear Emilee Skyles:

RE: CoP SJ 28-6 #79

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/7/2015 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: HP-2 @ 3.5'

 Project:
 CoP SJ 28-6 #79
 Collection Date: 3/31/2015 11:27:00 AM

 Lab ID:
 1504213-001
 Matrix: SOIL
 Received Date: 4/7/2015 6:40:00 AM

 Analyses
 Result
 RL Qual Units
 DF Date Analyzed
 Batch

		(
EPA METHOD 8015D: DIESEL RANGE O	RGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/9/2015 7:16:38 PM	18546
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/9/2015 7:16:38 PM	18546
Surr: DNOP	97.5	63.5-128	%REC	1	4/9/2015 7:16:38 PM	18546
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/8/2015 12:15:22 PM	18551
Surr: BFB	83.9	80-120	%REC	1	4/8/2015 12:15:22 PM	18551
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	4/8/2015 12:15:22 PM	18551
Toluene	ND	0.048	mg/Kg	1	4/8/2015 12:15:22 PM	18551
Ethylbenzene	ND	0.048	mg/Kg	1	4/8/2015 12:15:22 PM	18551
Xylenes, Total	ND	0.095	mg/Kg	1	4/8/2015 12:15:22 PM	18551
Surr: 4-Bromofluorobenzene	91.8	80-120	%REC	1	4/8/2015 12:15:22 PM	18551

Qualifiers:		Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank			
E J	E	Value above quantitation range	Н	H Holding times for preparation or analysis ex				
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Pag Sample pH Not In Range				
	0	RSD is greater than RSDlimit	Р					
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit				
	S	Spike Recovery outside accepted recovery limits						

Analytical Report Lab Order 1504213 Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Client Sample ID: HP-3 @ 3' Project: CoP SJ 28-6 #79 Collection Date: 3/31/2015 11:57:00 AM 1504213-002 Matrix: SOIL Lab ID: Received Date: 4/7/2015 6:40:00 AM .

Date Analyzed	Batch	
Analyst:	BCN	
4/9/2015 8:37:20 PM	18546	
4/9/2015 8:37:20 PM	18546	
4/9/2015 8:37:20 PM	18546	
Analyst:	NSB	
4/8/2015 1:41:34 PM	18551	
4/8/2015 1:41:34 PM	18551	
Analyst:	NSB	
4/8/2015 1:41:34 PM	18551	
4 4 4 4 4 4 4	/8/2015 1:41:34 PM /8/2015 1:41:34 PM Analyst: /8/2015 1:41:34 PM /8/2015 1:41:34 PM /8/2015 1:41:34 PM /8/2015 1:41:34 PM /8/2015 1:41:34 PM	

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
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

- 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 Not In Range P

RL Reporting Detection Limit

Page 2 of 9

Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: HP-4 @ 3'

 Project:
 CoP SJ 28-6 #79

 Lab ID:
 1504213-003

 Matrix:
 SOIL

 Result
 RL Qual

 Units
 DF Date Analyzed

 Batch

	the second s					the second se
EPA METHOD 8015D: DIESEL RANGE OR	GANICS		1.0		Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/9/2015 9:04:08 PM	18546
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/9/2015 9:04:08 PM	18546
Surr: DNOP	97.8	63.5-128	%REC	1	4/9/2015 9:04:08 PM	18546
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/8/2015 3:07:43 PM	18551
Surr: BFB	84.3	80-120	%REC	1	4/8/2015 3:07:43 PM	18551
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	4/8/2015 3:07:43 PM	18551
Toluene	ND	0.047	mg/Kg	1	4/8/2015 3:07:43 PM	18551
Ethylbenzene	ND	0.047	mg/Kg	1	4/8/2015 3:07:43 PM	18551
Xylenes, Total	ND	0.095	mg/Kg	1	4/8/2015 3:07:43 PM	18551
Surr: 4-Bromofluorobenzene	94.5	80-120	%REC	1	4/8/2015 3:07:43 PM	18551

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank			
	Е	E Value above quantitation range		Holding times for preparation or analysis exceeded			
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 3 of 0		
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 5 01 9		
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit			
	S	Spike Recovery outside accepted recovery limits					

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/10/2015

CLIENT: Animas Environmental Project: CoP SJ 28-6 #79

1504213-004

Lab ID:

Client Sample ID: HP-5 @ 3' Collection Date: 3/31/2015 1:41:00 PM Received Date: 4/7/2015 6:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			5 1	Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/9/2015 9:30:38 PM	18546
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/9/2015 9:30:38 PM	18546
Surr: DNOP	94.3	63.5-128	%REC	1	4/9/2015 9:30:38 PM	18546
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/8/2015 3:36:23 PM	18551
Surr: BFB	86.2	80-120	%REC	1	4/8/2015 3:36:23 PM	18551
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	4/8/2015 3:36:23 PM	18551
Toluene	ND	0.049	mg/Kg	1	4/8/2015 3:36:23 PM	18551
Ethylbenzene	ND	0.049	mg/Kg	1	4/8/2015 3:36:23 PM	18551
Xylenes, Total	ND	0.097	mg/Kg	1	4/8/2015 3:36:23 PM	18551
Surr: 4-Bromofluorobenzene	97.1	80-120	%REC	1	4/8/2015 3:36:23 PM	18551

Matrix: SOIL

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

- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH Not In Range P
- RL Reporting Detection Limit
- Page 4 of 9

Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: HP-6 @ 5'

 Project: CoP SJ 28-6 #79
 Collection Date: 3/31/2015 2:30:00 PM

 Lab ID: 1504213-005
 Matrix: SOIL
 Received Date: 4/7/2015 6:40:00 AM

 Analyses
 Result
 RL Qual Units
 DF Date Analyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/9/2015 9:57:32 PM	18546
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/9/2015 9:57:32 PM	18546
Surr: DNOP	95.5	63.5-128	%REC	1	4/9/2015 9:57:32 PM	18546
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/8/2015 4:05:11 PM	18551
Surr: BFB	84.4	80-120	%REC	1	4/8/2015 4:05:11 PM	18551
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	4/8/2015 4:05:11 PM	18551
Toluene	ND	0.048	mg/Kg	1	4/8/2015 4:05:11 PM	18551
Ethylbenzene	ND	0.048	mg/Kg	1	4/8/2015 4:05:11 PM	18551
Xylenes, Total	ND	0.096	mg/Kg	1	4/8/2015 4:05:11 PM	18551
Surr: 4-Bromofluorobenzene	93.7	80-120	%REC	1	4/8/2015 4:05:11 PM	18551

Qualifiers: *	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank		
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded		
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 5 of C		
0		RSD is greater than RSDlimit	Р	Sample pH Not In Range			
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit			
	S	Spike Recovery outside accepted recovery limits					

Analytical Report Lab Order 1504213 Date Reported: 4/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: HP-7 @ 3' Collection Date: 3/31/2015 3:15:00 PM

Project: CoP SJ 28-6 #79			Collection I	Date: 3/3	1/2015 3:15:00 PM	
Lab ID: 1504213-006	Matrix:	SOIL	Received I	Date: 4/7	7/2015 6:40:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			A Mary	Analyst:	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/9/2015 10:24:19 PM	18546
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	4/9/2015 10:24:19 PM	18546
Surr: DNOP	94.3	63.5-128	%REC	1	4/9/2015 10:24:19 PM	18546
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/8/2015 4:33:59 PM	18551
Surr: BFB	84.8	80-120	%REC	1	4/8/2015 4:33:59 PM	18551
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.048	mg/Kg	1	4/8/2015 4:33:59 PM	18551
Toluene	ND	0.048	mg/Kg	1	4/8/2015 4:33:59 PM	18551
Ethylbenzene	ND	0.048	mg/Kg	1	4/8/2015 4:33:59 PM	18551
Xylenes, Total	ND	0.095	mg/Kg	1	4/8/2015 4:33:59 PM	18551
Surr: 4-Bromofluorobenzene	93.9	80-120	%REC	1	4/8/2015 4:33:59 PM	18551

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	An
	E	Value above quantitation range	Н	Но
	J	Analyte detected below quantitation limits	ND	No
	0	RSD is greater than RSDlimit	Р	Sar
	R	RPD outside accepted recovery limits	RL	Re
	-			

- Spike Recovery outside accepted recovery limits S
- alyte detected in the associated Method Blank
- lding times for preparation or analysis exceeded
- ot Detected at the Reporting Limit
- mple pH Not In Range
- porting Detection Limit

Page 6 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504213

10-Apr-15

Sample ID MB 19546	Samo	Type: MI		Tor	tCode: E	DA Mothod	PO1ED: Dies	ol Pango	Organice	
	Samp	LID: 40		163		FAMethou	oursp. Dies	er Kange v	organics	
Client ID: PBS	Batc	n ID: 18	546	ł	Runno: 2	5386				
Prep Date: 4/7/2015	Analysis [Date: 4	/9/2015		SeqNo: 7	52140	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								10.0
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10	110	10.00		100	63.5	128	21.8		1513
Sample ID LCS-18546	Samp	Type: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	1
Client ID: LCSS	Batc	h ID: 18	546	F	RunNo: 2	5386				
Prep Date: 4/7/2015	Analysis [Date: 4	/9/2015	5	SeqNo: 7	52142	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	10	50.00	0	132	67.8	130	1.1		S
Surr: DNOP	6.6	-	5.000		131	63.5	128	Talka .	1.3.19	S
Sample ID 1504213-001AI	VIS Samp	Type: M	S	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID: HP-2 @ 3.5'	Batc	h ID: 18	546	F	RunNo: 2	5386				
Prep Date: 4/7/2015	Analysis [Date: 4	/9/2015	S	SeqNo: 7	52145	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.7	48.50	0	101	29.2	176	1.84		1.1
Surr: DNOP	4.7	7.1	4.850	S. Carl	97.4	63.5	128	15 33	J. Franklin	1
Sample ID 1504213-001AI	WSD Samp	Гуре: М	SD	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID: HP-2 @ 3.5'	Batc	h ID: 18	546	F	RunNo: 2	5386				
Prep Date: 4/7/2015	Analysis [Date: 4	/9/2015	5	SeqNo: 7	52146	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	29.2	176	4.32	23	1
0.000	1.0				0.0.0		100		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
- 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 Not In Range
- RL Reporting Detection Limit

Page 7 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1504213

10-Apr-15

Client:	Animas E	Environme	ntal								
Project:	COP SJ 2	8-6 #/9				le a		_	-		_
Sample ID	MB-18551	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8015D: Gas	oline Rang	ge	
Client ID: I	PBS	Batc	h ID: 18	3551	F	RunNo: 2	25375				
Prep Date:	4/7/2015	Analysis [Date: 4	/8/2015		SeqNo: 7	51117	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	ND	5.0				-				- 11
Surr: BFB		840		1000		84.0	80	120			1 30
Sample ID	_CS-18551	Samp	Type: LC	CS	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	je	
Client ID: I	CSS	Batc	h ID: 18	3551	F	RunNo: 2	5375				
Prep Date:	4/7/2015	Analysis [Date: 4	/8/2015		SeqNo: 7	51118	Units: mg/k	٨g		
Analyte		Result	POL	SPK value	SPK Ref Val	%REC	Lowl imit	Highl imit	%PPD	PPDI imit	Qual
Gasoline Range	Organics (GRO)	24	5.0	25.00	0	97.7	64	130	Joint D	IN DEITIL	Qual
Surr: BFB		900		1000		90.4	80	120			
Sample ID 1	1504213-001AMS	Samp	Гуре: М	S	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	je	
Client ID: I	HP-2 @ 3.5'	Batc	h ID: 18	551	F	RunNo: 2	5375				
Prep Date:	4/7/2015	Analysis [Date: 4	/8/2015	5	SeqNo: 7	51123	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDL imit	Qual
Gasoline Range	Organics (GRO)	28	4.7	23.74	0	118	47.9	144			1
Surr: BFB		890		949.7		93.5	80	120			
Sample ID 1	504213-001AMSE) Samp1	Гуре: М	SD	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	je	
Client ID: H	IP-2 @ 3.5'	Batch	h ID: 18	551	F	RunNo: 2	5375				
Prep Date:	4/7/2015	Analysis D	Date: 4/	/8/2015	5	SeqNo: 7	51124	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	28	4.8	23.81	0	116	47.9	144	1.94	29.9	
Surr: BFB		890		952.4		93.2	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- 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 Not In Range
- RL Reporting Detection Limit

Page 8 of 9

QC SUMMARY REPORT

Client:

WO#: 1504213 10-Apr-15

Hall Environmental Analysis Laboratory, Inc.

Animas Environmental

Sample ID	MB-18551	Samp	Гуре: МІ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batc	h ID: 18	551	F	RunNo: 2	5375					
Prep Date:	4/7/2015	Analysis [Date: 4	8/2015	S	SeqNo: 7	50899	Units: mg/h	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		ND	0.050							and any lit	5.7.8	
Toluene		ND	0.050									
Ethylbenzene		ND	0.050									
Xylenes, Total		ND	0.10									
Surr: 4-Brom	ofluorobenzene	0.95		1.000		94.8	80	120	100	A. Carlo		
Sample ID	LCS-18551	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	1 Series	3.71	
Client ID:	LCSS	Batc	h ID: 18	551	F	unNo: 2	5375					
Prep Date:	4/7/2015	Analysis E	Date: 4/	8/2015	S	SeqNo: 7	50900	Units: mg/h	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		1.2	0.050	1.000	0	119	76.6	128	1.12			
Toluene		1.1	0.050	1.000	0	115	75	124				
Ethylbenzene		1.2	0.050	1.000	0	117	79.5	126				
Xylenes, Total		3.5	0.10	3.000	0	117	78.8	124				
Surr: 4-Brom	ofluorobenzene	1.0		1.000		102	80	120	1.0	1000	iter	
Sample ID	1504213-002AMS	SampT	Гуре: М	6	Tes	tCode: El	PA Method	8021B: Vola	tiles	a ser	Sec. 1	
Client ID:	HP-3 @ 3'	Batcl	h ID: 18	551	F	tunNo: 2	5375					
Prep Date:	4/7/2015	Analysis D	Date: 4/	8/2015	S	eqNo: 7	50903	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	The second	1.1	0.049	0.9747	0	108	69.2	126			1.18	
Toluene		1.0	0.049	0.9747	0.009845	105	65.6	128				
Ethylbenzene		1.1	0.049	0.9747	0	109	65.5	138				
Xylenes, Total		3.2	0.097	2.924	0	108	63	139				
Surr: 4-Brom	ofluorobenzene	0.97		0.9747		99.2	80	120	1.27	- Addrew	1	
Sample ID	1504213-002AMSD	SampT	ype: MS	SD	Tes	Code: El	PA Method	8021B: Volat	tiles	Ser 124	1215	
Client ID:	HP-3 @ 3'	Batch	h ID: 18	551	F	unNo: 2	5375					
Prep Date:	4/7/2015	Analysis D	Date: 4/	8/2015	S	eqNo: 7	50904	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		1.1	0.049	0.9728	0	117	69.2	126	7.82	18.5		
Toluene		1.1	0.049	0.9728	0.009845	116	65.6	128	9.34	20.6		
Ethylbenzene		1.2	0.049	0.9728	0	124	65.5	138	12.9	20.1		
Xylenes, Total		3.6	0.097	2.918	0	123	63	139	13.1	21.1		
And the second second	Our state in the second state of the second st	0.00		0.0720		101	00	100	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
- 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 Not In Range
- RL Reporting Detection Limit

Page 9 of 9

17 1535

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albı TEL: 505-345-3975 Website: www.ha	Analysi 4901 uquerqu FAX: 5 illenviro	s Laboratory Hawkins NE e, NM 87109 05-345-4107 nmental.com	Sample Log-In Check List				
Client Name: Animas Environmental	Work Order Number	15042	213		RcptNo:	1		
Received by/date: AT 04/07/15	-					·		
Logged By: Anne Thorne	4/7/2015 6:40:00 AM			Jame Am	-			
Completed By: Anne Thorne Reviewed By: Could a	4/7/2015		4	anne An-	_			
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?		Cour	er					
Log In								
4. Was an attempt made to cool the sample	s?	Yes		No 🗆				
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes		No 🗆				
6. Sample(s) in proper container(s)?		Yes		No 🗌				
7. Sufficient sample volume for Indicated tes	t(s)?	Yes		No 🗆				
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes		No 🗆				
9. Was preservative added to bottles?		Yes		No 🗹	NA 🗆			
10.VOA vials have zero headspace?		Yes		No 🗆	No VOA Vials			
11. Were any sample containers received bro	ken?	Yes		No 🗹	# of preserved	1.14		
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗆	for pH: (<2 or	>12 unless noted)		
13. Are matrices correctly identified on Chain	of Custody?	Yes	~	No 🗌	Adjusted?			
14. Is it clear what analyses were requested?		Yes		No 🗌				
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by:			
Special Handling (if applicable)								
16. Was client notified of all discrepancies with	h this order?	Yes		NO LI	NA 12			
Person Notified:	Date			·				
By Whom:	Via:	eMa	I Dhon	e 📋 Fax				
Regarding:	and the state of the second balance of the			e e va Alum San da e s				
17 Additional remarke	and the second second		<u>1</u> .P 1		· · · ····			
18. <u>Cooler Information</u>								
Cooler No Temp C Condition	Seal Intact Seal No	Seal Da	te Sig	ned By				
1 1.0 Good Y	es]			

Page 1 of 1

NMENTAL	BORATORY	шо	M 87109	4107				(A (N 10	0	ime2) 0728 e9lddu8 iA										: 24	I by: Lindsay Dumes
Darvi	IS LA	ronmental.c	N 'enbrenbr	ax 505-345	sis Reques	s (*O	5 PCB's	2808 / 1 20N'E) iqea I'NC	Anions (F,C 8081 Pestic VOV) 8260B (VOV)								-		to Philips	Prodenec Condenec
HALL F	ANALYS	www.hallenvi	dins NE - Albu	45-3975 F	Analy		(SWIS	(1.40 9728	o or slats	EDB (Metho PCRA 8 Me RCRA 8 Me										11 to Cano	Hy Spentman
			4901 Hawk	Tel. 505-3		(O)	IM / OE	H9T + H9T +	99 4 (GL	TPH (Metho BTEX + MT B3F5 + MT	XXX	XX	XX	X X	X	XV	+			wat 2048	(GRK: DKHP1 Upernisor: Bol ssibility. Any sub-co
	tush		#79				0	D. Davis	01	ative HEALNO	- 201	162	1 203 1	(hoo-	1000	-colo 1				U UNIS TIME R	Date Time Date Time Detto Show oratories This pooratories. This serves as notice of this po
Around Time:	andard D	a name.	ST 28-6	t #:		t Manager.	E. Shyles	ler: E.Sky lis,	le Temperature.	ainer Preserv and # Typ	2 (m)	RE (001	02 cm/	of Cool	top. Eoul	tot Cool			-	Inthul al	to other accredited lab
Tum-/	AS P	Frojec	Col	Projec		Projec	(u	Samp	Samp	D Cont	1.5' 1-40	h-1, 9	3' 14	3/ 1-4	21 1-1	31 1-1				Receiv	Receive
stody Record	rental Services		Ruon St.	IOHES MI	-228]		Level 4 (Full Validatio			Sample Request I	@ HP-202	HP-3e3	HP-4e	HP-S e	HP-60	HP-70				dby: Syll	d by: He LUDOLLEN
in-of-Cu	as Environm		.W 403 :sse	minaton, n	-H92-505	tt.	ge:	D Other	e)	ne Matrix	et Soil	it Suil	15 Sin	11 Sui	30 501	its Sil	1			Relinquishe	7 M Muz
Chai	lientAnim		lailing Addr	Far	hone #:	mail or Fax	A/QC Packa	ocreditation	I EDD (Typ	Date	131 15 11:3	31/15 11:5	31/15 12:1	31/15 13.1	31/15/14:	31/15 15				Le IS III	lefts ITime



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

May 08, 2015

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

OrderNo.: 1505140

Dear Emilee Skyles:

RE: CoP SJ 28-6 #79

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/5/2015 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 5/8/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental			Client Sampl	e ID: HI	P-1	
Project: CoP SJ 28-6 #79			Collection]	Date: 5/4	4/2015 10:30:00 AM	
Lab ID: 1505140-001	Matrix:	AQUEOUS	Received I	Date: 5/	5/2015 6:50:00 AM	
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	140	2.0	µg/L	2	5/6/2015 2:16:08 PM	R26016
Toluene	ND	2.0	µg/L	2	5/6/2015 2:16:08 PM	R26016
Ethylbenzene	3.3	2.0	µg/L	2	5/6/2015 2:16:08 PM	R26016
Xylenes, Total	18	4.0	µg/L	2	5/6/2015 2:16:08 PM	R26016
Surr: 4-Bromofluorobenzene	111	80-120	%REC	2	5/6/2015 2:16:08 PM	R26016

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	od Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 5
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	rage rors
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Date Reported: 5/8/2015

CLIENT: Animas Environmental **Client Sample ID: HP-2 Project:** CoP SJ 28-6 #79 Collection Date: 5/4/2015 10:40:00 AM Lab ID: 1505140-002 Matrix: AQUEOUS Received Date: 5/5/2015 6:50:00 AM **DF** Date Analyzed Analyses Result **RL** Qual Units Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene 160 2.0 µg/L 2 5/6/2015 2:45:23 PM R26016 Toluene 3.1 2.0 2 R26016 µg/L 5/6/2015 2:45:23 PM Ethylbenzene 5.1 2.0 µg/L 2 5/6/2015 2:45:23 PM R26016 Xylenes, Total 47 4.0 µg/L 2 5/6/2015 2:45:23 PM R26016 Surr: 4-Bromofluorobenzene 80-120 %REC 121 2 5/6/2015 2:45:23 PM R26016 S

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

- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank B
- Η Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH Not In Range Р RL
 - Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1505140

Date Reported: 5/8/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental			Client Sampl	e ID: HI	2-4	
Project: CoP SJ 28-6 #79			Collection 1	Date: 5/4	/2015 10:50:00 AM	
Lab ID: 1505140-003	Matrix:	AQUEOUS	Received 1	Date: 5/5	2015 6:50:00 AM	di se
Analyses	Result	RL Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	NSB
Benzene	ND	2.0	µg/L	2	5/6/2015 3:14:34 PM	R26016
Toluene	ND	2.0	µg/L	2	5/6/2015 3:14:34 PM	R26016
Ethylbenzene	ND	2.0	µg/L	2	5/6/2015 3:14:34 PM	R26016
Xylenes, Total	ND	4.0	µg/L	2	5/6/2015 3:14:34 PM	R26016
Surr: 4-Bromofluorobenzene	112	80-120	%REC	2	5/6/2015 3:14:34 PM	R26016

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 3 of 5
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 5 01 5
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report

Lab Order 1505140

Date Reported: 5/8/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Project: CoP SJ 28-6 #79		(Client Sample Collection	le ID: HF Date: 5/4	P-5 2015 11:00:00 AM	
Lab ID: 1505140-004	Matrix:	AQUEOUS	Received	Date: 5/5	5/2015 6:50:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	I NSB
Benzene	200	2.0	µg/L	2	5/6/2015 3:43:45 PM	R26016
Toluene	ND	2.0	µg/L	2	5/6/2015 3:43:45 PM	R26016
Ethylbenzene	ND	2.0	µg/L	2	5/6/2015 3:43:45 PM	R26016
Xylenes, Total	ND	4.0	µg/L	2	5/6/2015 3:43:45 PM	R26016
Surr: 4-Bromofluorobenzene	95.2	80-120	%REC	2	5/6/2015 3:43:45 PM	R26016

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

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

- 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 Not In Range
- RL Reporting Detection Limit

Page 4 of 5

QC SUMMARY REPORT

Hall	Environmental	Analysis	Laboratory.	Inc.
AASSAA	AJAR T AL CALLER CALCESA	1 AAA DEA Y DAD	Lanouratory	AAA WO

WO#: 1505140

08-May-15

Client: Animas Project: CoP SJ	Environme 28-6 #79	ntal					Colorador			
Sample ID 5ML RB	Samp	Гуре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBW	Batc	h ID: R2	6016	F	RunNo: 2	6016				
Prep Date:	Analysis E	Date: 5	6/2015	5	SeqNo: 7	71267	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								1.5
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	22		20.00		108	80	120		and the second second	1000
Sample ID 100NG BTEX LC	s SampT	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles	9	1.0.0
Client ID: LCSW	Batch	h ID: R2	6016	F	RunNo: 2	6016				
Prep Date:	Analysis D	Date: 5/	6/2015	S	SeqNo: 7	71268	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.9	80	120	100	Sales Area	
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	110	80	120			
Xylenes, Total	66	2.0	60.00	0	110	80	120			
1,2,4-Trimethylbenzene	22	1.0	20.00	0	108	80	120			
1,3,5-Trimethylbenzene	22	1.0	20.00	0	111	80	120			
Surr: 4-Bromofluorobenzene	25		20.00		127	80	120			S

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
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Page 5 of 5

ENVIRONMENTAL ANALYSIS LABORATORY	Albu TEL: 505-345-3975 Website: www.hal	4901 Hawkins 4901 Hawkins querque, NM 87 FAX: 505-345-4 lenvironmental.o	NE 109 Sam 107 com	ple Log-In Check List
Client Name: Animas Environmental	Work Order Number:	1505140		RoptNo: 1
Received by/date: AT.	05/05/15			
Logged By: Ashley Gallegos	5/5/2015 6:50:00 AM		AZ	
Completed By. Ashley Gallegos	5/5/2016 9:23:39 AM		A	
Reviewed By: CS	05/05/15			
Chain of Custody	1 1			
1. Custody seals intact on sample bottles?		Yes	No 🗆	Not Present
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?		Courier		
Log In				
4. Was an attempt made to cool the sample	s7	Yes 🖌	No 🗌	NA 🗆
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated test	l(s)?	Yes 🗹	No 🗆	
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes	No 🗌	
9. Was preservative added to bottles?		Yes	No 🗹	NA 🗆
10 101 11 10 10 10 10 10 10 10 10 10 10	Pa	05/07/1	S No D	No VOA Viele
10.VOA viais have zero neadspace?	4002	Ves [No V	
11, were any sample containers received tho	NGI F	163 -		# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 unless noted
13. Are matrices correctly identified on Chain	of Custody?	Yes V	No 🗌	Adjusted?
14. Is it clear what analyses were requested?		Yes 🔽	No 🗌	· ·
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes M	No 🗌	Checked by:
Special Handling (IT applicable)		¥	No. 🗖	NA 17
16. Was client notified of all discrepancies wit	n this order?	Tes L		NA X
Person Notified: By Whom: Regarding:	Date Via: [eMail [] P	Phone 🗌 Fax	🗌 In Person
Client Instructions:				
17. Additional remarks:				
18. <u>Cooler Information</u> Cooler No Temp °C Condition	Seal Intact Seal No S	Seal Date	Signed By	
1 14 Good Y	es	1. All 1. All 1.	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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Project Name: Project Name: Mww.hallenvironmental.com 05 St 0. NiM 67-001 Project Name: Mww.hallenvironmental.com 05 St 0. NiM 67-001 Project Hander: Mww.hallenvironmental.com 14 Statisticum Project Hander: Project Hander: Mww.hallenvironmental.com 14 Statisticum Project Hander: Project Hander: Project Hander: Mww.hallenvironmental.com 15 Statisticum Project Hander: Project Hander: Project Hander: Project Hander: Mww.hallenvironmental.com 16 Statisticum Project Hander: Project Hander: Project Hander: Project Hander: Project Hander: 17 Statisticum Project Hander: Project Hander: Project Hander: Project Hander: Project Hander: 16 Statisticum Project Hander: Project Hander: Project Hander: Project Hander: Project Hander: 17 Statisticum Project Hander: Project Hander: Project Hander: Project Hander: Project Hander: 17 Statisticum Project Hander: Project Hander: Project Hander: Project Hander: <th></th> <th></th> <th></th> <th>X Standard</th> <th>D Rusi</th> <th>_</th> <th></th> <th></th> <th>A</th> <th>MA</th> <th>ž</th> <th>SIS</th> <th>3</th> <th>B</th> <th>OR</th> <th>AT</th> <th>OR</th>				X Standard	D Rusi	_			A	MA	ž	SIS	3	B	OR	AT	OR
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M. BT-R41 Project #: 44-2281 2281 101 44-2281 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 <tr< td=""><td>4 W Pir</td><td>nor</td><td>St</td><td>S</td><td>P SJ 28</td><td>-6 #79</td><td>4</td><td>901 F</td><td>lawkin</td><td>s NE</td><td>- Alt</td><td>enbno</td><td>'enbu</td><td>MN</td><td>8710</td><td>6</td><td></td></tr<>	4 W Pir	nor	St	S	P SJ 28	-6 #79	4	901 F	lawkin	s NE	- Alt	enbno	'enbu	MN	8710	6	
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x Sample Request ID Container Type and # Freewetive Type Freewetive The Action Freewetive The Action UIS HP-1 3 - 40 mL vola HC - 00/1 Action of Control Action of Control UIS HP-2 3 - 40 mL vola HC - 00/1 Action of Control Action of Control UIS HP-4 3 - 40 mL vola HC - 00/1 Action of Control Action of Control UIS HP-4 3 - 40 mL vola HC - 00/2 Action of Control Action of Control UIS HP-4 3 - 40 mL vola HC - 00/2 Action of Control Action of Control UIS HP-5 3 - 40 mL vola HC - 00/2 Action of Control Action of Control UIS HP-5 3 - 40 mL vola HC - 00/2 Action of Control Action of Control UIS HP-5 3 - 40 mL vola HC - 00/2 Action of Control Action of Control UIS HP-5 3 - 40 mL vola HC - 00/2 Action of Control Action of Control MAL HP-6 3 - 40 mL vola HC - 00/2 Action of Control Action of Control MAL Mar HC - 00/2 Actio				Sampleitempe	arature://47		1 20		18-0	/requ	Ses	·EP	A A	1 53	1210	197	_
DIS HP-1 3-40 mL VOA HCI $-OOI$ HCI $-OOI$ HC $-OOI$ HC X HC X HP-2 3-40 mL VOA HCI $-OO2$ HC $-OO2$ HC X H	Matr	,X	Sample Request ID	Container Type and #	Preservative Type	HEAL NO	Arsenic - EPA	TSS - SM 254	0084A sbifiu2	Salinity	Beolved Ga	-enoinA roleM	ajor Cations - E	Alkalinity - SN	1208 - 2021E	MS sinommA	
PDLS $3-40 \text{ mL}$ VOA HCl $-C03$ HCl X X POUS HP-5 $3-40 \text{ mL}$ VOA HCl $-D03$ HCl X POUS HP-5 $3-40 \text{ mL}$ VOA HCl $-D03$ HCl X POUS HP-5 $3-40 \text{ mL}$ VOA HCl $-D03$ HCl X POUS HP-5 $3-40 \text{ mL}$ VOA HCl $-D03$ HCl X POUS HP-5 $3-40 \text{ mL}$ VOA HCl $-D03$ HCl X POUS HP-5 $3-40 \text{ mL}$ VOA HCl $-D03$ HCl X POUS HP-5 $3-40 \text{ mL}$ VOA HCl $-D03$ HCl X POUS Math Math HCl 2082023 USER: BNA Math Math Math Math Math	Aque	snoa	HP-1	3 - 40 mL VOA	HCI	-001										1	
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data will he clearly notated on the analytical report. Anv sub-co