District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

# Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company ConocoPhillips Company Contact Lisa Hunter Final Report Address 3401 East 30<sup>th</sup> St, Farmington, NM Telephone No. (505) 326-9786 Facility Type: Gas Well Facility Name: San Juan 29-6 Unit 84 Facility Type: Gas Well Facility Type: Gas Well

Surface Owner BLM

Mineral Owner BLM

API No. 3003907623

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	14	29N	06W	1635'	North	1745'	East	Rio Arriba

Latitude <u>36.7284088</u> Longitude <u>-107.42859</u>

#### NATURE OF RELEASE

Type of Release Historic Contamination	Volume of Release Unknown	Volume Recovered 396 c/yds
Source of Release Production Tank	Date and Hour of Occurrence	Date and Hour of Discovery
	Unknown	01-22-14
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 📋 No 🛛 Not Required	n/a	
By Whom? n/a	Date and Hour <b>n/a</b>	
Was a Watercourse Reached?	If YES, Volume Impacting the Wate	ercourse.
🗌 Yes 🖾 No	n/a	
If a Watercourse was Impacted, Describe Fully.*		· · · · · · · · · · · · · · · · · · ·
n/a		
Describe Cause of Problem and Remedial Action Taken.*		
Historical hydrocarbon impacted soil was found during remov	al of a leaking tank.	
Describe Area Affected and Cleanup Action Taken.*		
Historical hydrocarbon impacted soil was found during remov	al of a leaking tank The excava	tion was 25' x 30' x 12' in denth and
396 c/yds of soil was transported to IEI land farm and 396 c/yd		
placed in the excavation site. Analytical results were below th		
sampling report is attached for review.	e regulatory standards – no turth	ier action required. The son
sampning report is attached for review.		
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understan	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release r		
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remediat		
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respons	ibility for compliance with any other
federal, state, or local laws and/or regulations.		
the state of the s	<u>OIL CONSERV</u>	ATION DIVISION
Is be lat		T   T
Signature N 1	A	
	Approved by Environmental Specialis	"I what has a second what has
Printed Name: Lisa Hunter		
Title: Field Environmental Specialist	Approval Date: 1414	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	_
D-man radiess. Disa.runer@cop.com		Attached
Date: August 18, 2014 Phone: (505) 326-9786		
	tana lu	I · a

HNCS 1430842934



Animas Environmental Services, LLC

OIL CONS. DIV DIST. 3

AUG 1 9 2014

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

July 25, 2014

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

7.

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

## RE: Initial Release Assessment and Final Excavation Report San Juan 29-6 #84 Rio Arriba County, New Mexico

#### Dear Ms. Hunter:

During January, April, May, and June 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 29-6 #84, located in Rio Arriba County, New Mexico. The initial release consisted of an unknown quantity of produced water and while investigating the release, historical contamination was encountered. The initial release assessment was completed by AES on January 23, 2014. The final excavation extents were completed by CoP contractors prior to AES' arrival at the location in April and May 2014, with final environmental clearance completed on June 3, 2014.

#### 1.0 Site Information

#### 1.1 Location

Location – SW¼ NE¼, Section 14, T29N, R6W, Rio Arriba County, New Mexico Well Head Latitude/Longitude – N36.72859 and W107.42938, respectively Release Location Latitude/Longitude – N36.72832 and W107.42957, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2014 Lisa Hunter San Juan 29-6 #84 Initial Release Assessment and Final Excavation Report July 25, 2014 Page 2 of 8

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### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 20 based on the following factors:

- Depth to Groundwater: A cathodic protection report form dated February 1992 for this location reported the depth to groundwater at 90 feet below ground surface (bgs). (10 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Approximately 840 feet south-southeast is an unnamed drainage that flows to Navajo Pasture and eventually to Gobernador Canyon. (10 points)

## 1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on January 9, 2014, and on January 23, 2014, Deborah Watson, Emilee Skyles, and Sam Glasses of AES completed the release assessment field work. The assessment included collection and field screening of 16 soil samples from 7 borings in and around the release area. Several borings were terminated at the surface or near the surface due to frozen soil conditions. Based on the field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On April 9, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities on April 9, 2014, included collection of five confirmation soil samples (SC-1 through SC-5) from the walls and base of the excavation. The area of the final excavation measured approximately 26 feet by 23 feet by 10 feet in depth. The depth of the excavation was limited by a confining layer of sandstone at 10 feet bgs.

Samples collected from the sandstone base of the excavation did not meet NMOCD action levels, and at the direction of BLM, the excavation remained open during April through early June while additional remedial activities and sampling events continued. Additional remedial activities included two applications of Quantum Growth<sup>™</sup> (April and May 2014) and one application of potassium permanganate (June 2014). AES returned to the location in April, May, and June 2014 to resample the base and collect an additional six confirmation samples (SC-6 through SC-11). Sample locations and final excavation extents are presented on Figure 4.

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## 2.0 Soil Sampling

A total of 16 soil samples from 7 borings (SB-1 through SB-7) and 11 composite samples (SC-1 through SC-11) were collected during the assessments and clearance activities. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). All composite samples, except SC-8 and SC-10, collected during the excavation clearance were submitted for confirmation laboratory analysis.

## 2.1 Field Sampling

## 2.1.1 Volatile Organic Compounds

Field sampling for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field sampling, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

## 2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

## 2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

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

In addition, soil samples SC-1, SC-5, SC-6, SC-7, SC-9, and SC-11 were laboratory analyzed for:

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

Lisa Hunter San Juan 29-6 #84 Initial Release Assessment and Final Excavation Report July 25, 2014 Page 4 of 8

## 2.3 Field and Laboratory Analytical Results

On January 23, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 1.2 ppm in SB-6 up to 4,924 ppm in SB-5. Field TPH concentrations ranged from 38.8 mg/kg in SB-7 up to 8,440 mg/kg in SB-1.

Final excavation field screening results for VOCs via OVM ranged from 1.1 ppm in SC-3 up to 3,888 ppm in SC-5. Field TPH concentrations ranged from 15.1 mg/kg in SC-4 up to 2,210 mg/kg in SC-8. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
	CD Action Lev		100	100
		Surface	4,623	NA
	-	1.5	4,723	7,260
<b></b>	-	4	4,842	NA
SB-1	1/23/14 -	6	3,855	987
	-	9	4,451	NA
	-	9.5	4,714	8,440
SB-2	1/23/14	Surface	10.6	NA
SB-3	1/23/14	Surface	2.9	NA
SB-4	1/23/14	0.5	11.5	NA
		1	4,676	>2,500
SB-5	1/23/14	4	4,680	NA
		8	4,924	1,980
SB-6	1/23/14	1	1.2	NA
		1	3,870	NA
SB-7	1/23/14	4	76.1	NA
	-	8	137	38.8
SC-1	4/9/14	1 to 10	407	27.8
SC-2	4/9/14	1 to 10	9.1	26.5

Table 1. Soil Field Sampling VOCs and TPH Results San Juan 29-6 #84 Initial Release Assessment and Final Excavation Lisa Hunter San Juan 29-6 #84 Initial Release Assessment and Final Excavation Report July 25, 2014 Page 5 of 8

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
NMO	CD Action Lev	el*	100	100
SC-3	4/9/14	1 to 10	1.1	<20.0
SC-4	4/9/14	1 to 10	5.1	<20.0
SC-5	4/9/14	10	3,888	NA
SC-6	4/14/14	10	2,356	2,100
SC-7	4/23/14	10	575	650
SC-8	5/7/14	10	2,506	2,210
SC-9	5/21/14	10	412	408
SC-10	5/30/14	10	843	463
SC-11	6/3/14	10	11.7	57.5

NA - not analyzed

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

Laboratory analyses for SC-1 through SC-7, SC-9, and SC-11 were used to confirm field sampling results from the final excavation. Benzene concentrations were reported below laboratory detection limits in SC-1, SC-5, SC-6, SC-9, and SC-11. Total BTEX concentrations ranged from less than 0.17 mg/kg (SC-1) up to 111 mg/kg (SC-5). TPH concentrations as GRO/DRO ranged from 12 mg/kg in SC-11 up to 2,370 mg/kg in SC-5. Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

		April, M	ay and Jun	e 2014		
Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMO	CD Action Le	vel*	10	50	1	00
SC-1	4/9/14	1 to 10	<0.034	<0.17	<4.7	16
SC-2	4/9/14	1 to 10	NA	NA	<4.9	<10.0
SC-3	4/9/14	1 to 10	NA	NA	<4.7	<10.0
SC-4	4/9/14	1 to 10	NA	NA	<4.8	<10.0
SC-5	4/9/14	10	<0.34	111	1,500	870

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPHSan Juan 29-6 #84 Final Excavation Clearance

Lisa Hunter San Juan 29-6 #84 Initial Release Assessment and Final Excavation Report July 25, 2014 Page 6 of 8

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
SC-6	4/14/14	10	<0.79	87.4	940	800
SC-7	4/23/14	10	<0.19	1.5	130	250
SC-9	5/21/14	10	<0.039	0.21	20	260
SC-11	6/3/14	10	<0.024	0.42	12	<9.9

NA – not analyzed

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

## 3.0 Conclusions and Recommendations

On January 23, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a historic release at the San Juan 29-6 #84. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in SB-1, SB-5, and SB-7. The highest VOC concentration was reported in SB-5 with 4,924 ppm, and the highest TPH concentration was reported in SB-1 with 8,440 mg/kg.

On April 9, 2014, final clearance of the sidewalls of the excavation area was completed. Field sampling results of the excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels of 100 mg/kg for the final walls of the excavation, except the VOC concentration of the north wall (SC-1). The base of the excavation (SC-5) also exceeded the applicable NMOCD action levels for VOCs and TPH. Laboratory analytical results reported benzene and total BTEX in SC-1 below NMOCD action levels, and TPH concentrations as GRO/DRO were reported below the NMOCD action level of 100 mg/kg in SC-1 through SC-4.

In April and May 2014, Quantum Growth<sup>TM</sup> was applied to the base of the excavation, and samples SC-6 through SC-10 were collected. On June 2, 2014, potassium permanganate was also applied to the base of the excavation, and a final sample SC-11 was collected on June 3, 2014. Field sampling results for SC-11 reported VOC and TPH concentrations below applicable NMOCD action levels for the base of the excavation. Laboratory analytical results for SC-11 reported benzene, total BTEX, and TPH as GRO/DRO below applicable NMOCD action levels. Lisa Hunter San Juan 29-6 #84 Initial Release Assessment and Final Excavation Report July 25, 2014 Page 7 of 8

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils and subsequent applications of Quantum Growth<sup>TM</sup> and potassium permanganate at the San Juan 29-6 #84, VOCs, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

Znih Sy L

Emilee Skyles Staff Geologist

Uzabiat V Mervely

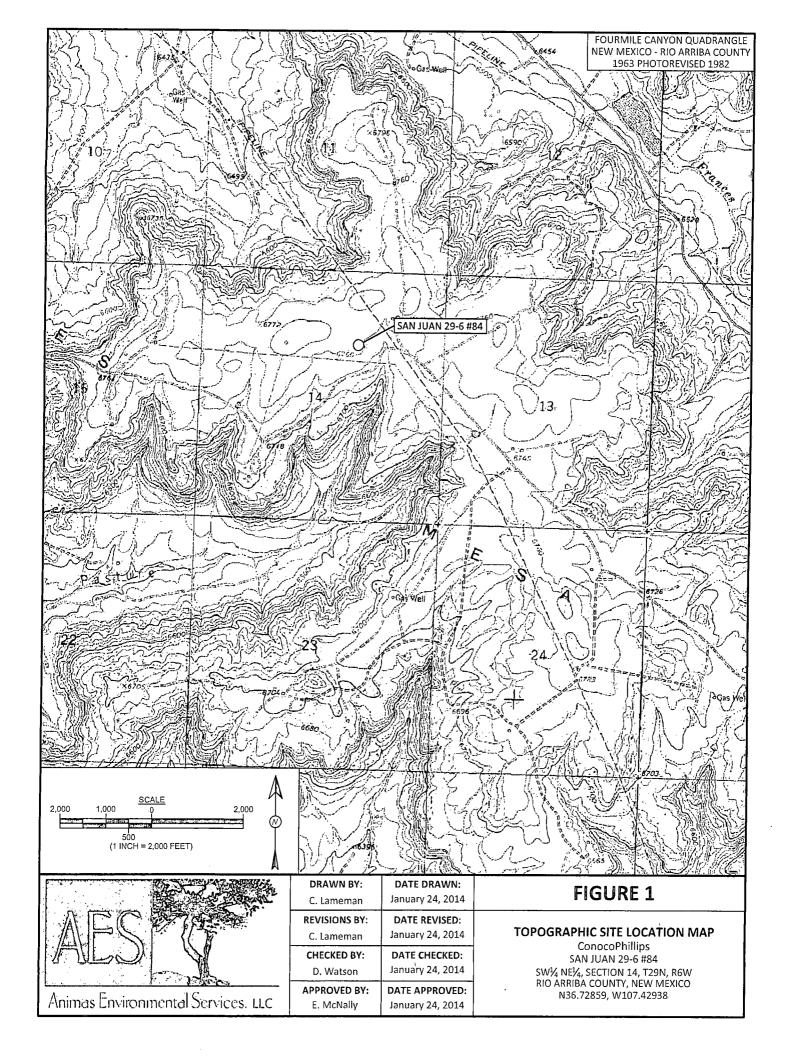
Elizabeth McNally, PE

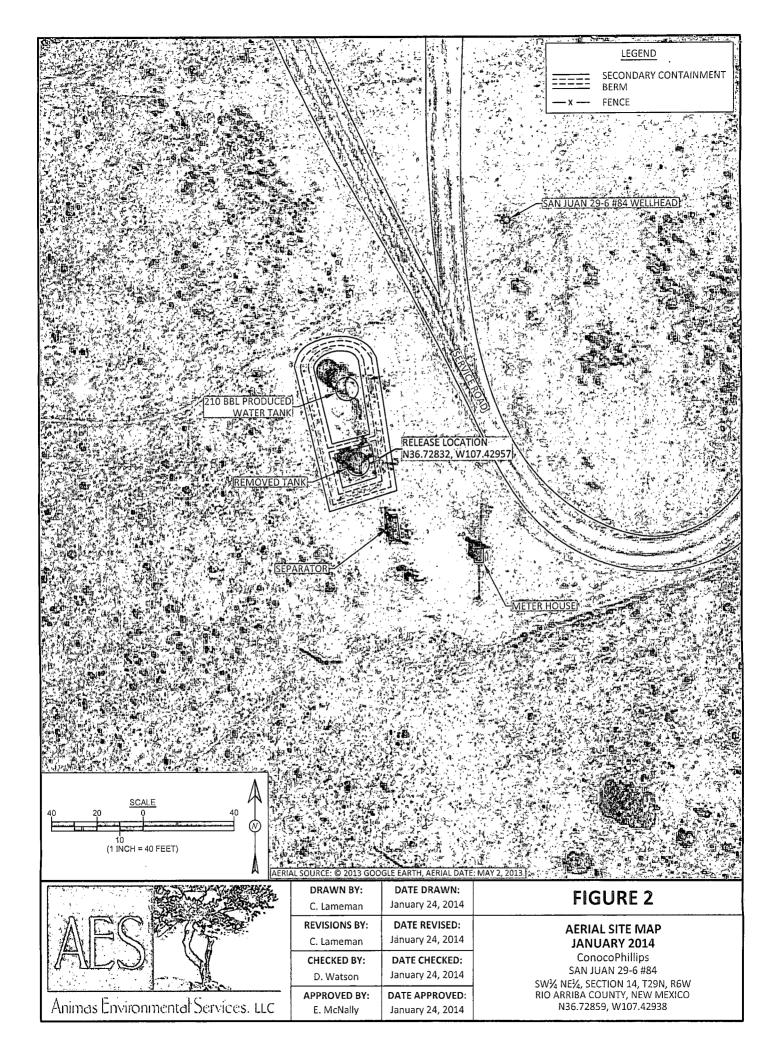
Attachments:

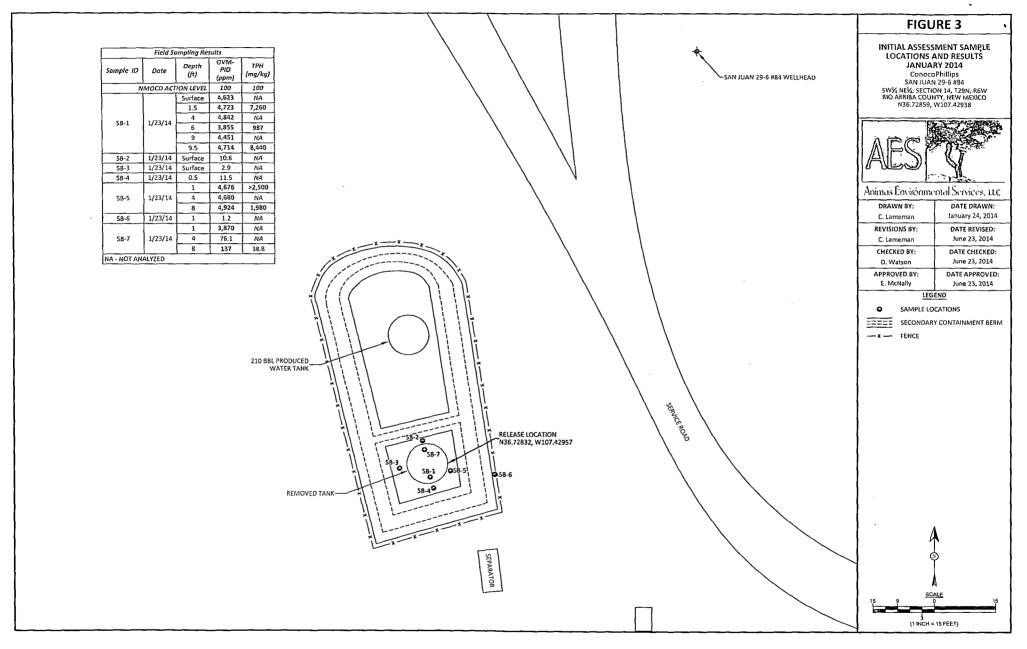
Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2014 Figure 3. Initial Assessment Sample Locations and Results, January 2014 Figure 4. Final Excavation Sample Locations and Results, April-June 2014 AES Field Sampling Report 012314 AES Field Sampling Report 040914 AES Field Sampling Report 041414 AES Field Sampling Report 042314 AES Field Sampling Report 050714 AES Field Sampling Report 052114 AES Field Sampling Report 053014 AES Field Sampling Report 060314 Hall Laboratory Analytical Report 1404480 Hall Laboratory Analytical Report 1404570 Hall Laboratory Analytical Report 1404663 Hall Laboratory Analytical Report 1404A06 Hall Laboratory Analytical Report 1405955 Hall Laboratory Analytical Report 1406153

Lisa Hunter San Juan 29-6 #84 Initial Release Assessment and Final Excavation Report July 25, 2014 Page 8 of 8

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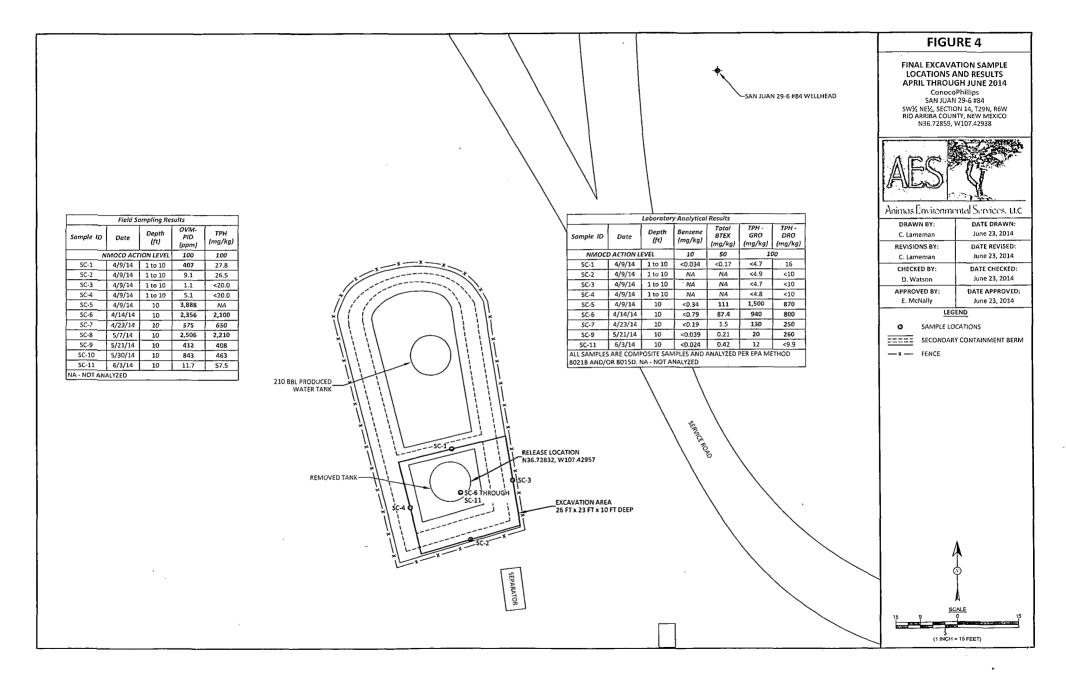






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Animas Environmental Services.4.

www.animasenvironmental.co

624 E. Comanc Farmington, NM 874 505-564-22

Durango, Colora 970-403-301

# Client: ConocoPhillips Project Location: San Juan 29-6 #84

Date: 1/23/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ surface	1/23/2014	11:46	4,623			nalyzed for 1	l	
SB-1 @ 1.5'	1/23/2014	11:55	4,723	7,260	12:32	200	10	EMS
SB-1 @ 4'	1/23/2014	12:05	4,842		Not A	nalyzed for T	ГРН	
SB-1 @ 6'	1/23/2014	12:33	3,855	987	12:51	20.0	1	EMS
SB-1 @ 9'	1/23/2014	12:55	4,451		Not A	nalyzed for T	ГРН	
SB-1 @ 9.5'	1/23/2014	13:05	4,714	8,440	13:22	200	10	EMS
SB-2 @ surface	1/23/2014	13:15	10.6		Not A	nalyzed for T	ГРН	
SB-3 @ surface	1/23/2014	13:25	2.9		Not A	nalyzed for T	ГРН	
SB-4 @ 0.5'	1/23/2014	13:31	11.5		Not A	nalyzed for T	ГРН	
SB-5 @ 1'	1/23/2014	13:35	4,676	>2,500	13:46	20.0	1	EMS
SB-5 @ 4'	1/23/2014	13:42	4,680		Not A	nalyzed for T	ГРН	
SB-5 @ 8'	1/23/2014	14:08	4,924	1,980	14:23	20.0	1	EMS
SB-6 @ 1'	1/23/2014	13:10	1.2		Not A	nalyzed for T	ЪН	
SB-7 @ 1'	1/23/2014	14:22	3,870		Not A	nalyzed for T	ЪН	
SB-7 @ 4'	1/23/2014	14:35	76.1		Not A	nalyzed for T	РН	
SB-7 @ 8'	1/23/2014	14:48	137	38.8	15:12	20.0	1	EMS

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Sich Sh L



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

> Durango, Colorado 970-403-3084

## Client: ConocoPhillips

Project Location: San Juan 29-6 #84

Date: 4/9/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/9/2014	13:25	North Wall	407	27.8	14:17	20.0	1	DAW
SC-2	4/9/2014	13:28	South Wall	9.1	26.5	14:25	20.0	1	DAW
SC-3	4/9/2014	14:35	East Wall	1.1	17.0	14:50	20.0	1	DAW
SC-4	4/9/2014	13:35	West Wall	5.1	15.1	14:21	20.0	1	DAW
SC-5	4/9/2014	13:38	Base	3,888		Not A	nalyzed for TP	н	_

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DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

\* TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Debrah Water



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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-6 #84

Date: 4/14/2014

Matrix: Soil

						ТРН			ТРН
	Collection	Collection	Sample	ovm	ТРН*	Analysis	TPH PQL		Analysts
Sample ID	Date	Time	Location	(ppm)	(mg/kg)	Time	(mg/kg)	DF	Initials
SC-6	4/14/2014	10:00	Base	2,356	2,100	10:25	20.0	11	DR

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Dairy Reve Analysts:



Animas Environmental Services, u.c.

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

> Durango, Colorado 970-403-3084

## Client: ConocoPhillips

Project Location: San Juan 29-6 #84

## Date: 4/23/2014

Matrix: Soil

					_	ТРН			ТРН
	Collection	Collection	Sample	OVM	TPH*	Analysis	TPH PQL		Analysts
Sample ID	Date	Time	Location	(ppm)	(mg/kg)	Time	(mg/kg)	DF	Initials
SC-7	4/23/2014	9:10	Base	575	650	9:33	20.0	1	SL

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

\* TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Stephanicolyn



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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-6 #84

Date: 5/7/2014

Matrix: Soil

						ТРН			трн
-	Collection	Collection	Sample	OVM	TPH*	Analysis	TPH PQL		Analysts
Sample ID	Date	Time	Location	(ppm)	(mg/kg)	Time	(mg/kg)	DF	Initials
SC-8	5/7/2014	10:50	Base	2,506	2,210	11:05	20.0	1	SL

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

stephanicollym



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

> Durango, Coloradó 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-6 #84

Date: 5/21/2014

Matrix: Soil

					1	ТРН			ТРН
	Collection	Collection	Sample	оум	ТРН*	Analysis	TPH PQL		Analysts
Sample ID	Date	Time	Location	(ppm)	(mg/kg)	Time	(mg/kg)	DF	Initials
SC-9	5/21/2014	10:32	Base	412	408	10:52	20.0	1	SL

- -

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

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\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

attephanicallym



Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-6 #84

Date: 5/30/14

Matrix: Soil

						′ трн			ТРН
	Collection	Collection	Sample	оум	TPH*	Analysis	TPH PQL		Analysts
Sample ID	Date	Time	Location	(ppm)	(mg/kg)	Time	(mg/kg)	DF	Initials
SC-10	5/30/2014	12:00	Base	843	463	12:14	20.0	1	SL

DF Dilution Factor

NA Not Analyzed

- -

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

- -

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

stephanicolyn



Animas Environmental Services. u.c.

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-6 #84

Date: 6/3/2014

Matrix: Soil

						трн			ТРН
	Collection	Collection	Sample	оум	TPH*	Analysis	TPH PQL		Analysts
Sample ID	Date	Time	Location	(ppm)	(mg/kg)	Time	(mg/kg)	DF	Initials
SC-11	6/3/2014	9:25	Base	11.7	57.5	9:49	20.0	1	SL

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

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\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

attephanicollynn



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

April 14, 2014

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

RE: CoP San Juan 29-6 #84

OrderNo.: 1404480

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/10/2014 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,

Andia

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1404480

Date Reported: 4/14/2014

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#### **CLIENT:** Animas Environmental Client Sample ID: SC-1 CoP San Juan 29-6 #84 Collection Date: 4/9/2014 1:25:00 PM **Project:** Lab ID: 1404480-001 Matrix: MEOH (SOIL) Received Date: 4/10/2014 10:05:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.034 mg/Kg 4/10/2014 11:13:19 AM R17906 1 4/10/2014 11:13:19 AM R17906 Toluene ND 0.034 mg/Kg 1 Ethylbenzene ND 0.034 mg/Kg 1 4/10/2014 11:13:19 AM R17906 Xylenes, Total ND 0.068 mg/Kg 1 4/10/2014 11:13:19 AM R17906 Surr: 4-Bromofluorobenzene 80-120 %REC 4/10/2014 11:13:19 AM R17906 100 1

· · ·

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blan					
	E	Value above quantitation range	Н	Holding times for preparation or analysis exceeded				
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 6			
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.				
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit				
	S	Spike Recovery outside accepted recovery limits						

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

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Lab Order 1404480 Date Reported: 4/14/2014

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EPA METHOD 8015D: DIESEL RANG				vst: BCN				
Analyses	Result	<b>RL</b> Qual Units	DF Date Analyzed	Batch				
Lab ID: 1404480-002	Matrix: N	AEOH (SOIL) Received	Date: 4/10/2014 10:05:00 Al	M				
<b>Project:</b> CoP San Juan 29-6 #84		Collection	Date: 4/9/2014 1:38:00 PM					
<b>CLIENT:</b> Animas Environmental	Client Sample ID: SC-5							

Diesel Range Organics (DRO)	870	100		mg/Kg	10	4/10/2014 1:12:31 PM	12644
Surr: DNOP	0	66-131	S	%REC	10	4/10/2014 1:12:31 PM	12644
EPA METHOD 8015D: GASOLINE RANGE	Ξ			•		Analyst	NSB
Gasoline Range Organics (GRO)	1500	67		mg/Kg	20	4/10/2014 11:41:59 AM	R17906
Surr: BFB	521	74.5-129	S	%REC	20	4/10/2014 11:41:59 AM	R17906
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.34		mg/Kg	20	4/10/2014 11:41:59 AM	R17906
Toluene	6.4	0.67		mg/Kg	20	4/10/2014 11:41:59 AM	R17906
Ethylbenzene	6.3	0.67		mg/Kg	20	4/10/2014 11:41:59 AM	R17906
Xylenes, Total	98	1.3		mg/Kg	20	4/10/2014 11:41:59 AM	R17906
Surr: 4-Bromofluorobenzene	140	80-120	S	%REC	20	4/10/2014 11:41:59 AM	R17906

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 analysis exceeded			
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 2 of 6		
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.			
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit			
	S	Spike Recovery outside accepted recovery limits					

Animas Environmental

22 **Client:** 

Project:	СоР	San Juan 29-6 #8	34								
Sample ID	MB-12644	SampTyp	e: Me	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	PBS	Batch II	D: 12	644	F	RunNo: 1	7898				
Prep Date:	4/10/2014	Analysis Date	e: 4/	10/2014	S	SegNo: 5	16499	Units: mg/M	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	ND 7.5	10	10.00		74.9	66	131			
Sample ID	LCS-12644	SampTyp	e: LC	:S	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	LCSS	Batch II	D: 12	644	F	RunNo: 1	7898				
Prep Date:	4/10/2014	Analysis Date	e: 4/	10/2014	S	SeqNo: 5	16503	Units: mg/#	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	46	10	50.00	0	91.6	60.8	145			
Surr: DNOP	·	3.8		5.000	<u> </u>	75.5	66	131			· · · · · · · · · · · · · · · · · · ·
Sample ID	MB-12624	SampTyp	e: Me	3LK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	PBS	Batch II	D: 12	624	F	RunNo: 1	7898				
Prep Date:	4/9/2014	Analysis Date	e: 4/	10/2014	S	GeqNo: 5	16973	Units: %RE	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.5		10.00		95.4	66	131			
Sample ID	LCS-12624	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Drganics	
Client ID	LCSS	Batch \	)· 12	624	F	RunNo: 1	7898				

Client ID: LCSS	Batch ID: 12624	RunNo: 17898		
Prep Date: 4/9/2014	Analysis Date: 4/10/2014	SeqNo: 516974	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	4.4 5.000	87.9 66	131	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- 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
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Page 3 of 6

1404480

WO#:

14-Apr-14

WO#: 1404480

14-Apr-14

•	s Environmental an Juan 29-6 #84	
Sample ID MB-12623 MK	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: R17906	RunNo: <b>17906</b>
Prep Date:	Analysis Date: 4/10/2014	SeqNo: 517068 Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 870 1000	86.6 74.5 129
Sample ID LCS-12623 MK	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: R17906	RunNo: <b>17906</b>
Prep Date:	Analysis Date: 4/10/2014	SeqNo: 517069 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 102 71.7 134
Surr: BFB	920 1000	92.2 74.5 129
Sample ID MB-12623	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 12623	RunNo: <b>17906</b>
Prep Date: 4/9/2014	Analysis Date: 4/10/2014	SeqNo: 517100 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	870 1000	86.6 74.5 129
Sample ID LCS-12623	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 12623	RunNo: 17906
Prep Date: 4/9/2014	Analysis Date: 4/10/2014	SeqNo: 517101 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	920 1000	92.2 74.5 129

#### Qualifiers:

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

Page 4 of 6

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Animas Environmental

CoP San Juan 29-6 #84

SampType: MBLK

Batch ID: R17906

Analysis Date: 4/10/2014

**Client:** 

**Project:** 

Sample ID MB-12623 MK

Client ID: PBS

Prep Date:

Sam	nple ID 1404480-001AMS	D Samp	Type: MS	SD .	Tes	tCode: El	PA Method	8021B: Vola	tiles	
Clie	nt ID: SC-1	Batc	h ID: <b>R1</b>	7906	RunNo: <b>17906</b>					
Prep	o Date:	Analysis [	Date: 4/	10/2014	S	Units: mg/Kg				
Ana	lyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%	
Benze	ene	0.79	0.034	0.6826	0	116	67.4	135		
Tolue	ne	0.74	0.034	0.6826	0.007625	107	72.6	135		
Ethylb	penzene	0.73	0.034	0.6826	0.006498	107	69.4	143		
Xylene	es, Total	2.2	0.068	2.048	0.02008	105	70.8	144		
Sur	r: 4-Bromofluorobenzene	0.73		0.6826		106	80	120		
Qual	ifiers:									
*	Value exceeds Maximum C	Contaminant	Level.		B Analyte	detected in	n the associa	ted Method Bla	ank	
E	Value above quantitation ra	inge			H Holding times for preparation or analysis exceed					
Т	Analyte detected below our	untitation lim	its		ND Not Det	ected at th	e Reporting I	imit		

- ND Not Detected at the Reporting Limit
  - Sample pH greater than 2.
- Р RL Reporting Detection Limit

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Page 5 of 6

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-	 	~~~		478		
TestCode:	honte	XII21	R. 101	atues		
1000000	, u	0021		uui 00		

Units: mg/Kg

RunNo: 17906

SegNo: 517134

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	ND	0.050							
Toluene	ND	0.050							
Ethylbenzene	ND	0.050							
Xylenes, Total	ND	0.10							
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120		
Sample ID LCS-12623 MK	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles	
Client ID: LCSS	Batch	n ID: <b>R1</b>	7906	ਜ	RunNo: 1	7906			
Prep Date:	Analysis D	)ate: 4/	10/2014	5	SeqNo: 5	17135	Units: mg/h	۲g	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	1.1	0.050	1.000	0	109	80	120		
Televisi	4.0	0.050	4 000	0	100	00	100		

Toluene	1.0	0.050	1.000	0	102	80	120				
Ethylbenzene	1.0	0.050	1.000	0	102	80	120				
Xylenes, Total	3.0	0.10	3.000	0	100	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120				
Sample ID 1404480-001AMS	Samp1	Гуре: М	 6	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: SC-1	Batcl	h ID: <b>R1</b>	7906	F	RunNo: 1	7906					
Prep Date:	Analysis E	Date: 4/	/10/2014	S	SeqNo: 5	17137	Units: mg/ł	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.78	0.034	0.6826	0	114	67.4	135				
Toluene	0.73	0.034	0.6826	0.007625	105	72 6	135				

Prep Date:	Analysis [	Date: 4/	10/2014	S	SeqNo: 5	17137	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.034	0.6826	0	114	67.4	135			
Toluene	0.73	0.034	0.6826	0.007625	105	72.6	135			
Ethylbenzene	0.73	0.034	0.6826	0.006498	106	69.4	143			
Xylenes, Total	2.1	0.068	2.048	0.02008	104	70.8	144			
Surr: 4-Bromofluorobenzene	0.74		0.6826		108	80	120			

Sample ID 1404480-001AM	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SC-1	Batch	n ID: <b>R1</b>	7906	F	RunNo: 1	7906				
Prep Date:	Analysis E	)ate: 4/	10/2014	S	SeqNo: 5	17138	Units: mg/H	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.034	0.6826	0	116	67.4	135	1.67	20	
Toluene	0.74	0.034	0.6826	0.007625	107	72.6	135	1.49	20	
Ethylbenzene	0.73	0.034	0.6826	0.006498	107	69.4	143	1.10	20	
Xylenes, Total	2.2	0.068	2.048	0.02008	105	70.8	144	1.20	20	
Surr: 4-Bromofluorobenzene	0.73		0.6826		106	80	120	0	0	

- 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

WO#: 1404480

14-Apr-14

Qual

Qual

Client: Project:		s Environmental an Juan 29-6 #84								
Sample (D	MB-12623	SampType: M	BLK	Test	Code: El	PA Method	8021B: Vola	tiles		·
Client ID:	PBS	Batch ID: 12	2623	R	unNo: <b>1</b>	7906			<b>v</b>	
Prep Date:	4/9/2014	Analysis Date: 4	/10/2014	S	eqNo: 5	17142	Units: %RE	с		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	ofluorobenzene	1.0	1.000		105	80	120			
Sample ID	LCS-12623	SampType: LO	cs	Test	Code: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch ID: 12	2623	R	unNo: 1	7906				
Prep Date:	4/9/2014	Analysis Date: 4	/10/2014	S	eqNo: 5	17143	Units: %RE	с		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	ofluorobenzene	1.1	1.000		107	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 greater than 2.
- RL Reporting Detection Limit

Page 6 of 6

1404480

WO#:

14-Apr-14

ENVIRONMENTAL ANALYSIS TEL: 505-345-3	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 3975 FAX: 505-345- w.hallenvironmental	s NE 7105 Sam 4107	ple Log-In Check List
Client Name: Animas Environmental Work Order Num	ber: 1404480		RcptNo: 1
Received by/date:			
Logged By: Michelle Garcia 4/10/2014 10:05:00	) AM	Murul Ga	un l
Completed By: Michelle Garcia 4/10/2014 10:11:25 Reviewed By: 04/10/14	5 AM	Mirille Ga Mirille Ga	uio)
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?	Courier		
<u>Log In</u>			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes 🗹	No 🗌	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	
9. Was preservative added to bottles?	Yes 🗌	No 🗹	
10.VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🗹
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	botties checked 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?	Yes 🗹	No 🗌	Checked by:

(If no, notify customer for authorization.)

## Special Handling (if applicable)

6. Was client notified of all dis	crepancies with this order?	Yes 🗌	No 🔲	. NA 🗹
Person Notified:		Date:	· · · ·	
By Whom:	· · · · · ·	Via: 🗌 eMall [	] Phone 🗌 Fax 📋	In Person
Regarding:				
Client Instructions:			×	·

17. Additional remarks:

#### 18. Cooler Information

Ī	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
[	1	1.0	Good	Yes			

			stody Record	Turn-Around			l				<b>.</b>							-	
				☐ Standard	.Rush	<u>same day</u> 6 #84											IEN RAT		
	S.			Project Name		<u> </u>	1 🗖	٥		_								Ur	<b>•</b> a
1ailing /	Address:	rvices		C.P. Sam.	1000 29-	6 #84					ww.h						••		
67		624 E	•	Project #:			4			awkin			-	•			09		
Fa	irmine	ton N.	M 87401				1. e.s			5-345									SP 75
		54	281	<u> </u>							- C 3	Anal		Req	uest		63	3 <sup>22</sup>	
mail or				Project Mana	ger:		Ê	Juc	8				(† 0	s					1
A/QC P	'ackage: dard		Level 4 (Full Validation)	D. Wa-	son		<b>602</b> 1)	TPH (Gas only)	Ň		SIMS)		PO4,S	PCB's					
ccredit	ation			Sampler: D.	Watson	· · · · ·	[欄]	H	Š.	=			03	082					
I NELA	<b>\</b> Ρ	□ Othe	ſ	Ori Ice:	XYes		- <b>11</b> +	н +	2	18.	ž   8		03.6	s / 8		3			
EDD	(Type)_			Sample Tem	perature	1.0		H	0	4 pc		)tals	Ň	ide	F	ş			
Date	Time	Matrix	Sample Request ID	Type and #	Preservative Type	HEAL NO. 1404480	BTEX + NEE	BTEX + MTBE	TPH 8015B (GRO) (DRO) MRO)	TPH (Method 418.1)	EUB (Method 504.1) PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)			
-9-14	1325	Soil	SC-1	Mc08kd- 1-402	Muoti	$-\alpha$	X	<u> </u>		<u>-</u> +'				ω			+		-
	1338		<u>SC-5</u>	Wolfer 1-402	Meot	-002	X		X		+	1				-+-		$\left\{ -\right\}$	-
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1/14	1750	Chri	+ Lolb	Chur	Allally	Date 110/14	Sup	a. env	, 501:	Mil	e Sh	rth		act	Corde	. D	150		

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 22, 2014

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

RE: CoP San Juan 29-6 #84

OrderNo.: 1404570

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/11/2014 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1404570

## Hall Environmental Analysis Laboratory, Inc.

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Date Reported: 4/22/2014

1

CLIENT:Animas EnvironmentalProject:CoP San Juan 29-6 #84Lab ID:1404570-001	Client Sample ID: SC-1Collection Date: 4/9/2014 1:25:00 PMMatrix: SOILReceived Date: 4/11/2014 10:05:00 AM							
Analyses	Result	RL Qi	al Units	DF	Date Analyzed	Batch		
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN		
Diesel Range Organics (DRO)	16	10	mg/Kg	1	4/14/2014 10:49:10 Pi	M 12664		
Surr: DNOP	105	66-131	%REC	1	4/14/2014 10:49:10 PM	M 12664		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: RAA		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/14/2014 6:29:50 PM	12675		
Surr: BFB	94.5	74.5-129	%REC	1	4/14/2014 6:29:50 PM	12675		

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 1 of 6
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report

Lab Order 1404570

Date Reported: 4/22/2014

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## Hall Environmental Analysis Laboratory, Inc.

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CLIENT	: Animas Environmental	Client Sample ID: SC-2										
Project:	CoP San Juan 29-6 #84	Collection Date: 4/9/2014 1:28:00 PM										
Lab ID:	1404570-002	Matrix:	SOIL	Received	<b>i Date:</b> 4/11/2014 10:05:00 AM							
Analyses		Result	RL Qu	nal Units	DF	Date Analyzed	Batch					
EPA ME	THOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN					
Diesel F	Range Organics (DRO)	ND	10	mg/Kg	1	4/14/2014 11:19:11 P	M 12664					
Surr:	DNOP	103	66-131	%REC	1	4/14/2014 11:19:11 P	M 12664					
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analy	st: RAA					
Gasolin	e Range Organics (GRO)	ND	4.9	mg/Kg	1	4/14/2014 6:58:30 PM	1 12675					
Surr:	BFB	85.6	74.5-129	%REC	1	4/14/2014 6:58:30 PM	1 12675					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank				
	E	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded			
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 2 of 6			
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 2 01 0			
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit				
	S	Spike Recovery outside accepted recovery limits						

Analytical	Report

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 1404570 Date Reported: 4/22/2014

CLIENT: Animas EnvironmentalProject:CoP San Juan 29-6 #84Lab ID:1404570-003						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/14/2014 11:49:27 PI	A 12664
Surr: DNOP	105	66-131	%REC	1	4/14/2014 11:49:27 PI	M 12664
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	. 1	4/14/2014 7:27:08 PM	12675
Surr: BFB	84.3	74.5-129	%REC	1	4/14/2014 7:27:08 PM	12675

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 6
O RSD is greater th		RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 450 5 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report
Lab Order 1404570

Date Reported: 4/22/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT:Animas EnvironmentalProject:CoP San Juan 29-6 #84Lab ID:1404570-004	Matrix:	SOIL	0011001011	Date: 4/9	C-4 D/2014 1:35:00 PM 1/2014 10:05:00 AM	•
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/15/2014 12:19:36 AM	M 12664
Surr: DNOP	109	66-131	%REC	1	4/15/2014 12:19:36 AM	M 12664
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/14/2014 7:55:43 PM	12675
Surr: BFB	86.5	74.5-129	%REC	1	4/14/2014 7:55:43 PM	12675

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

ittit	1 10 11		inst tor maga	
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte
	Е	Value above quantitation range	Н	Holding
	J	Analyte detected below quantitation limits	ND	Not Dete
	0	RSD is greater than RSDlimit	Р	Sample
	R	RPD outside accepted recovery limits	RL	Reportin
	S	Spike Recovery outside accepted recovery limits		

B Analyte detected in the associated Method Blank

- Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RE Reporting Detection Limit
- Page 4 of 6
- 450 7 0

1404570

WO#:

22-Apr-14

Client: Project:		as Environmen San Juan 29-6 ‡									
Sample ID MI	B-12664	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Diese	el Range (	Organics	
Client ID: PE	BS	Batch	ID: 12	664	F	RunNo: 1	7928				
Prep Date: 4	1/11/2014	Analysis Da	ate: 4/	11/2014	S	SeqNo: 5	17366	Units: mg/K	g		
Analyte		Result ND	PQL 10	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD .	RPDLimit	Quai
Diesel Range Orga Surr: DNOP		7.1	10	10.00		71.1	66	131			
Sample ID LC	CS-12664	SampTy	/pe: LC	S	Tes	tCode: El	PA Method	8015D: Diese	el Range (	Organics	
Client ID: LC	CSS	Batch	ID: 12	664	F	tunNo: 1	7928				
Prep Date: 4	/11/2014	Analysis Da	ate: 4/	11/2014	S	eqNo: 5	17367	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	48	10	50.00	0	96.0	60.8	145		1	
Surr: DNOP		3.4		5.000		68.0	66	131			
Sample ID MI	B-12686	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID: PE	BS	Batch	ID: 12	686	F	unNo: 1	7962				
Prep Date: 4	/14/2014	Analysis Da	ate: 4/	14/2014	S	eqNo: 5	18408	Units: %RE	0		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00	,	101	66	131			
Sample ID LC	CS-12686	 SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8015D: Diese	l Range C	Drganics	
Client ID: LC	SS	Batch	ID: 12	686	R	unNo: 1	7962				
Prep Date: 4	/14/2014	Analysis Da	ate: 4/	14/2014	S	eqNo: 5	18409	Units: %RE	0		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.5		5.000		90.3	66	131			

#### Qualifiers:

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

Page 5 of 6

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WO#: 1404570

22-Apr-14

Client: Animas Environmental

Project: CoP San Juan 29-6 #84

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Sample ID MB-12675		ype: ME			TestCode: EPA Method 8015D: Gasoline Range RunNo: 17995						
Client ID: PBS Prep Date: 4/11/2014	Batci Analysis E	n ID: <b>12</b> )ate: <b>4</b> /			Cunno: 1 SeqNo: 5		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 850	5.0	1000		84.5	74.5	129				
Sample ID LCS-12675	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range					e		
0	- · · ·			. RunNo: <b>17995</b>							
Client ID: LCSS	Batch	1D: 12	675	. F	unino: 1	7995					
Client ID: LCSS Prep Date: 4/11/2014	Batch Analysis D				seqNo: 5		Units: mg/H	ζg			
			14/2014				Units: <b>mg/k</b> HighLimit	<b>Sg</b> %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 greater than 2.
- RL Reporting Detection Limit

Page 6 of 6

ANALYSIS LABORATORY TEL: 505-345-39	tal Analysis Labo 4901 Hawki Albuquerque, NM 975 FAX: 505-345 hallenvironmenta	ins NE 87105 Sam 5-4107	ple Log-In C	heck List
Client Name: Animas Environmental Work Order Numb	er: 1404570		RcptNo:	1
Received by/date: CS 04/11/14				·
Logged By: Lindsay Mangin 4/11/2014 10:05:00	AM	م الم الم الم		
Completed By: Lindsay Mangin 4/11/2014 1:15:04 P	м	June Happ		
Reviewed By:				
Chain of Custody				· 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 samples?	Yes 🗹	No 🗔	NA 🗌	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗔		
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes 🗋	No 🗹	NA 🗌	
10.VOA vials have zero headspace?	Yes 🗌	No 🗔	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes 🗆	No 🗹 🗍	# of preserved	· ,
12. Does paperwork match bottle labels?	Yes 🗹	No 🗌	bottles checked for pH:	
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗌	(<2 o Adjusted?	r >12 unless noted)
14, is it clear what analyses were requested?	Yes 🗹		· _	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)				
16.Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: Date: Date:				
By Whom: Via:		Phone 🗌 Fax	In Person	
Regarding:				:
Client Instructions:		4.44 <sup>2</sup>		j
17. Additional remarks:				
18. <u>Cooler Information</u>				
Cooler No         Temp °C         Condition         Seal Intact         Seal No           1         2.1         Good         Yes	Seal Date	Signed By		

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Page 1 of 1

1 Time. Réinquished ty: 1 Th7 Antatur L 1 necessari, samples submitted to Hall E	hp // Time: Reinquished by:								-9-14 1325 Sind Sco 4	Sal	4-14 1328 8nd Sc. 2	9-14 1325 Sond SC-1	Date Time Matrix Sample Request ID	I EDD (Type)	J NELAP C Other		X-vuc Package:	imail or Fax#:	35 564 22.8	DV X	hailing Address: 624 E Curnenche	Services H.C.	lient Animal Environmental	Chall-OI-CUSIOUY NECOLO
Received by	Received by:				1							1-110-Z	Container Type and #	Sample Temperature	1	Sampler D /	7.1.06	Project Manager:		Project #:	Cop Sin Jun	Project Name:	X Standard	
Suredied laboratorias	1 No to.								1	1		[	Preservative Type	erature: 27,1 °	Erres 1	L'ALWA	Jatson	5 			29-6	) <sup>1</sup>	🗆 Rush	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 22, 2014

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

RE: CoP San Juan 29-6 #84

OrderNo.: 1404663

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/15/2014 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,

andia

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1404663

Date Reported: 4/22/2014

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# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental		(	lient Samp	ole ID: SC-6	
Project: CoP San Juan 29-6 #84			Collection	Date: 4/14/2014 10:00:00 AM	Л
Lab ID: 1404663-001	Matrix: S	OIL	Received	Date: 4/15/2014 9:56:00 AM	
Analyses	Result	RL Qual	Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS			Analy	/st: BCN

Diesel Range Organics (DRO)	800	10		mg/Kg	1	'4/15/2014 12:39:46 PM	12708
Surr: DNOP	82.9	66-131		%REC	1	4/15/2014 12:39:46 PM	12708
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	940	160		mg/Kg	50	4/15/2014 1:06:42 PM	R17997
Surr: BFB	192	74.5-129	S	%REC	50	4/15/2014 1:06:42 PM	R17997
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	NĎ	0.79		mg/Kg	50	4/15/2014 1:06:42 PM	R17997
Toluene	. 4.1	1.6		mg/Kg	50	4/15/2014 1:06:42 PM	R17997
Ethylbenzene	4.3	1.6		mg/Kg	50	4/15/2014 1:06:42 PM	R17997
Xylenes, Total	79	3.1		mg/Kg	50	4/15/2014 1:06:42 PM	R17997
Surr: 4-Bromofluorobenzene	115	80-120		%REC	50	4/15/2014 1:06:42 PM	R17997

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

····	*				
Qualifiers:		Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	od Blank
	Ë	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 1 of 4
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 1 01 4
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

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22-Apr-14

Client: Project:		mas Environmental 9 San Juan 29-6 #84							···· <del>}-·</del> ···	
Sample ID	MB-12708	SampType:	MBLK	Tes	tCode: El	PA Method	8015D: Diese	Range (	Organics	
Client ID:	PBS	Batch ID:	12708	Я	RunNo: 1	7986				
Prep Date:	4/15/2014	Analysis Date:	4/15/2014	5	SeqNo: 5	19232	Units: mg/K	3		
Analyte .		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range ( Surr: DNOP	Organics (DRO)	ND 7.2	10 10.00		72.3	66	131			
Sample ID	LCS-12708	SampType:	LCS	Tes	tCode: El	PA Method	8015D: Diese	I Range (	Organics	
Client ID:	LCSS	Batch ID:	12708	F	RunNo: <b>1</b>	7986				
Prep Date:	4/15/2014	Analysis Date:	4/15/2014	S	eqNo: 5	19398	Units: mg/Kg	)		
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)		10 50.00	0	89.0	60.8	145			
Surr: DNOP		3.4	5.000		67.8	66	131			
Sample ID	MB-12726	SampType:	MBLK	Tes	tCode: El	PA Method	8015D: Diese	Range (	Organics	
Client ID:	PBS	Batch ID:	12726	F	unNo: 1	8017				
Prep Date:	4/15/2014	Analysis Date:	4/17/2014	S	eqNo: 5	21794	Units: %REC			
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.4	10.00		84.4	57.9	140			
Sample ID	LCS-12726	SampType:	LCS	Tes	tCode: El	PA Method	8015D: Diese	Range (	Drganics	
Client ID:	LCSS	Batch ID:	12726	R	unNo: 1	8017				
Prep Date:	4/15/2014	Analysis Date:	4/17/2014	S	eqNo: 5	21795	Units: %REC	;		
Analyte		ResultPQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.3	5.000		86.4	57.9	140			

#### Qualifiers:

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

Page 2 of 4

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### Client: Animas Environmental

Project: CoP San Juan 29-6 #84

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Sample ID MB-12692 MK	Samp1	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	oline Rang	е	
Client ID: PBS	Batcl	n ID: <b>R1</b>	7997	F	RunNo: <b>17997</b>					
Prep Date: 4/14/2014	Analysis [	Date: 4/	15/2014	SeqNo: 519604			Units: mg/k		• .	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.9	74.5	129			
Surr: BFB		ype: LC		Tes			129 8015D: Gaso	oline Rang	e	
Surr: BFB	Samp1	Type: LC	s			PA Method		oline Rang	e	
Surr: BFB Sample ID LCS-12692 MK Client ID: LCSS	Samp1	h ID: <b>R1</b>	:S 7997	F	tCode: E	PA Method 7997		-	e	
Surr: BFB Sample ID LCS-12692 MK Client ID: LCSS	Samp1 Batcl	h ID: <b>R1</b>	S 7997 15/2014	F	tCode: El RunNo: 1 SeqNo: 5	PA Method 7997	8015D: Gasc	-	e RPDLimit	Qual
Surr: BFB Sample ID LCS-12692 MK Client ID: LCSS Prep Date: 4/14/2014	Samp1 Batcl Analysis D	h ID: R1 Date: 4/	S 7997 15/2014	F	tCode: El RunNo: 1 SeqNo: 5	PA Method 7997 19605	8015D: Gasc Units: mg/M	(g		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 greater than 2.
- RL Reporting Detection Limit

Page	3	of 4	
	~		

WO#:

22-Apr-14

Animas Environmental

CoP San Juan 29-6 #84

Result

SampType: MBLK

Batch ID: R17997

PQL

Analysis Date: 4/15/2014

Benzene	ND	0.050	
Toluene	ND	0.050	
Ethylbenzene	ND	0.050	
Xylenes, Total	ND	0.10	
Surr: 4-Bromofluorobenzene	1.0		1.000

Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID LCS-12692 MK	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	h ID: <b>R1</b>	7997	F	RunNo: 1	7997				
Prep Date: 4/14/2014	Analysis Date: 4/15/2014			ę	SeqNo: 5	19630	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 8021B: Volatiles

Units: mg/Kg

HighLimit

RunNo: 17997

SeqNo: 519629

Qualifiers:

**Client:** 

**Project:** 

Client ID:

Prep Date:

Analyte

Sample ID MB-12692 MK

PBS

- Value exceeds Maximum Contaminant Level. \*
- Value above quantitation range Ē
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- 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
- Sample pH greater than 2. Р
- RL Reporting Detection Limit

Page 4 of 4

1404663 22-Apr-14

Qual

WO#:

RPDLimit

%RPD

### HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

## Sample Log-In Check List

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Client Name: Animas Environmental Work Order Numb	ber: 1404663		RcptNo:	1
Received by/date: 12/15/12				
Logged By: Anne Thorne 4/15/2014 9:56:00 A	٨M	arne Hom	~	
Completed By: Anne Thorne 4/15/2014		ame Am		
Reviewed By:		Clarke Arm		
Chain of Custody				<b>_</b>
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 🗌	
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 🗹	# of preserved	
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custody)			(<2 or Adjusted?	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑ Yes ☑	No 🛄 No 🗔		
14. Is it clear what analyses were requested? 15. Were all holding times able to be met?	Yes ⊻ Yes ☑		Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable) 16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗔	na 🗹	
Person Notified: Date				
By Whom: Via:	,	Phone 🔲 Fax	In Person	
Regarding:				
Client Instructions:			Line (M. C. M. San S. Line and States of the state	
17. Additional remarks:				
18. <u>Cooler Information</u>				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 1.0 Good Not Present				
<u></u>				<u> </u>

Cł	nain-o	of-Cus	tody Record	Tum-Around Ti	ime:	Same DAy			. 1	LAL		NI\/7		<b>N</b> I	MEN	таі	
Client:	Animas	Environm	ental Services	Standard	Rust	Same DAy			-						RAT		-
<u></u>				Project Name:			niev	2	ě						il.com		
Mailing Add	iress:	624 E Co	manche Farmington NM	CoP San Juan	29-6 #84			490	)1 Ha						, NM 8	7109	
•		87401		Project #:						5-345-			-	•	45-41(		
Phone #:		505-564-		-													
email or Fa	x#:	505-324-		Project Manage	er:	<u></u>											
QA/QC Pack	-																
X Standar	d		Level 4 (Full Validation)	Debbie Watsor	۱												
Accreditatio	חכ:			Sampler:	E. Skyles			N N N									
	(ne)			ontice. Samplemenno				ŘŐ									
	(DC)	1					<b> </b> <u></u>	0									
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservati ve Type	AC HEAD NO.	BTEX (8021	TPH 8015B (GRO/DRO)									
4/14/2014	10:00	Soil	SC-6	MeOH kit 1-4 oz. Jar	MeOH non	1404663.001	x	x									
						1.											
											1-						
															~		
				$\square$										T			
Date: 4/14/14	Time; 17:50	Relinquish	Sinh Sy L	Received by:	M	Date Time 14/15/14 1954	Bill	To: (	Cono	co Phi	llips						
Date:	Time:	Relinquish	ed by:	Received by:		Date Time											

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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### HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 30, 2014

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

RE: CoP SJ 29-6 #84

OrderNo.: 1404A06

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/24/2014 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 1404A06 Date Reported: 4/30/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas EnvironmentalClient Sample ID: SC-7Project: CoP SJ 29-6 #84Collection Date: 4/23/2014 9:10:00 AMLab ID: 1404A06-001Matrix: MEOH (SOIL)Received Date: 4/24/2014 10:00:00 AMAnalysesResultRLOual

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	250	9.8	mg/Kg	1	4/24/2014 1:14:41 PM	12862
Surr: DNOP	101	57.9-140	%REC	1	4/24/2014 1:14:41 PM	12862
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	130	19	mg/Kg	5	4/24/2014 12:07:42 PM	/ R18182
Surr: BFB	244	74.5-129	S %REC	5	4/24/2014 12:07:42 PM	/ R18182
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.19	mg/Kg	5	4/24/2014 12:07:42 PN	A R18182
Toluene	ND	0.19	mg/Kg	5	4/24/2014 12:07:42 PN	A ∙R18182
Ethylbenzene	ND	0.19	mg/Kg	5	4/24/2014 12:07:42 PN	/ R18182
Xylenes, Total	1.5	0.38	mg/Kg	5	4/24/2014 12:07:42 PN	/ R18182
Surr: 4-Bromofluorobenzene	110	80-120	%REC	5	4/24/2014 12:07:42 PN	A R18182

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 1 of 4
	0	RSD is greater than RSDlimit	. P	Sample pH greater than 2.	1450 1 01 1
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

WO#: 1404A06

30-Apr-14

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Client: Project:	Animas E CoP SJ 2	Cnvironmenta 9-6 #84	1	<u></u>							
Sample ID	MB-12862	SampType	e: Me	3LK	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	PBS	.Batch ID	: 12	862	ਜ	tunNo: 1	8177				
Prèp Date:	4/24/2014	Analysis Date	: 4/	24/2014	Ś	SeqNo: 5	24869	Units: mg/M	۲. g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range ( Surr: DNOP	Drganics (DRO)	ND 8.9	10	10.00		89.4	57.9	140			
Sample ID	LCS-12862	SampType	e: LC	 ;s	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Drganics	
Client ID:	LCSS	Batch ID	: 12	862	F	RunNo: 1	8177				
Prep Date:	4/24/2014	Analysis Date	: <b>4</b> /	/24/2014	S	SeqNo: 5	24871	Units: mg/M	Kg <sup>·</sup>		
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD_	RPDLimit	Qual
•	Organics (DRO)	48	10	50.00	0	95.3	60.8	145			
Surr: DNOP		4.4		5.000		87.3	57.9	140			
Sample ID	1404A06-001AMS	SampType	e: MS	3	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Drganics	_
Client ID:	SC-7	Batch ID	: 12	862	ਜ	RunNo: 1	8177				
Prep Date:	4/24/2014	Analysis Date	: 4/	24/2014	S	SeqNo: 5	24894	Units: mg/H	٢g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	320	10	50.00	246.9	143	47.4	148			
Surr: DNOP		4.9		5.000		97.8	57.9	140			
Sample ID	1404A06-001AMS	D SampType	e: MS	SD	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Drganics	
Client ID:	SC-7	Batch ID	: 12	862	F	RunNo: 1	8177	-			
Prep Date:	4/24/2014	Analysis Date	e: 4/	/24/2014	S	SeqNo: 5	24895	Units: mg/H	(g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	370	10	50.35	246.9	245	47.4	148	15.0	22.7	S
Surr: DNOP		5.0		5.035		100	57.9	140	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 greater than 2.
- RL Reporting Detection Limit

Page 2 of 4

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WO#: 1404A06

30-Apr-14

	as Environme 5J 29-6 #84	ntal								
Sample ID MB-12823 MK	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	ie	
Client ID: PBS	Batcl	h ID: <b>R1</b>	8182	F	RunNo: 1	8182				
Prep Date:	Analysis [	Date: 4/	24/2014	S	SeqNo: 5	25360	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.9	74.5	129			
Sample ID LCS-12823 MP	Samp1	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batcl	h ID: <b>R1</b>	8182	F	RunNo: 1	8182				
Prep Date:	Analysis D	Date: 4/	24/2014	S	SeqNo: 5	25361	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.9	71.7	134			
Surr: BFB	910		1000		91.1	74.5	129			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- Ē Value above quantitation range
- Analyte detected below quantitation limits 3
- RSD is greater than RSDlimit 0
- 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
- ND Not Detected at the Reporting Limit
- Р
- RL Reporting Detection Limit

Page		
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Sample pH greater than 2.

### Client: Animas Environmental

**Project:** CoP SJ 29-6 #84

Sample ID MB-12823 MK	Samp	SampType: MBLK TestCode: EPA Method 8021B: Volatiles												
Client ID: PBS	Batc	h ID: <b>R1</b>	8182	F	RunNo: <b>1</b>	8182								
Prep Date:	Analysis [	Date: 4/	24/2014	S	SeqNo: 5	25380	Units: mg/H	ζg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.050												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	0.98		1.000		97.7	80	120							
Sample ID LCS-12823 MK	Samp	Гуре: LC	:s	Tes	tCode: E	PA Method	8021B: Vola	tiles						
Client ID: LCSS	Batc	h ID: <b>R1</b>	8182	F	RunNo: 1	8182								
Prep Date:	Analysis [	Date: 4/	24/2014	S	GeqNo: 5	25381	Units: mg/k	ίg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.0	0.050	1.000	0	100	80	120							
Toluene	0.97	0.050	1.000	0	96.9	80	120							
Ethylbenzene	0.98	0.050	1.000	0	97.6	80	120							
Xylenes, Total	2.9	0.10	3.000	0	96.3	80	120							
Surr: 4-Bromofluorobenzene	1.1		1.000		106	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 greater than 2.
- RL Reporting Detection Limit

Page 4 of 4

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1404A06

WO#:

30-Apr-14

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

## Sample Log-In Check List

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Client Name: Animas Environmental Work Order	Number: 1404A06		RcptNo: 1
Received by/date	<u>  4</u>	·	·····
Logged By: Ashley Gallegos 4/24/2014 10:0	00:00 AM	A	
Completed By: Ashley Gallegos 4/24/2014 10:2	25:21 AM	A	÷
Reviewed By: CS 04/24/14		V	· · · · ·
Chain of Custody	<u> </u>		
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			<i></i>
4. Was an attempt made to cool the samples?	Yes 🖌	No	NA
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0	P°C Yes 🗸	No 1	NA .
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 🗸	# of preserved
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)

ī	Person Not	ified:			Date:			• •
	By Whom:	Ī			Via:	📋 eMail	[]] Phone []] Fax	c [] In Person
	Regarding:	Ĩ						
	Client Instr	uctions:	a hanna at bhainn an an an h		الغازي الرقيبية التعالي ومعرواتها ويتغر			
. A	dditional remar	ks:						
. <u>c</u>	ooler Informa	tlon				•		
<u>C</u>	ooler Informa Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By	

C	hain	-ot-Cu	stody kecora	I UIT ANOMIO			.			L	48		F	NV	TE	20	NR	1F	NT	AL	_
Client:	Anma	s Enciro	nwentel services	Standard     Project Name		same day				ļ	N.	AL	YS	515	5 L	.AE	30			DR	
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		624 2	. Comanche	Project #:	J 29-6 =	F & Y	-										M 87				
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<u>'hone</u>		5 56	1-2281	Ducie et Mane					1000	\$ <u>}</u> }	r. s. s.		ULC IS			3					
·	r Fax#:	<u> </u>		Project Mana	ger:		(8021)	oul						SO,	3's						
JA/QC1 Stan	Package: dard		Level 4 (Full Validation)	٥.	Watson		(80	TPH (Gas only)	0			MS		04,	PCI						
Accredi				Sampler: S	. h			) H	/ DRO	_		0 SI		O <sub>2</sub> ,F	382						
⊐ NEL		D Other	·			<b>No</b>	<b>7</b>	н ТF	õ	1.9	8	827		3°N	/ 8(		Â				Z
ב EDD	(Type)			Sample Tem	perature:	S AND			Ъ)	4	od 5(	b	tals	NU'	ides	7	Š				Z
Date	Time	Matrix	Sample Request ID		Preservative Type		BTEX + N	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504:1)	PAH's (8310 or 8270 SIMS)	<b>RCRA 8 Metals</b>	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB'	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
123/14	9:10	<b>S</b> 0i <b>l</b>	SC-7	MEDH VAT	MedH	-001	*		*												
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	necessary,	samples subm	itted to Hall Environmental may be sub-	contracted to other a	credited laboratori	es. This serves as notice of thi	s possi	bliity.	Any su	ıb-con	tracte	d data	will b	e clea	ly not	ated or	n thé a	nalytic	al repo	rt.	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

May 23, 2014

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

RE: CoP SJ 29-6 #84

OrderNo.: 1405955

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Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/22/2014 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,

andig

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

### Lab Order 1405955

Date Reported: 5/23/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental		(	lient Samp	le ID: SC-9				
<b>Project:</b> CoP SJ 29-6 #84			Collection Date: 5/21/2014 10:32:00 AM					
Lab ID: 1405955-001	Matrix: M	1EOH (SOIL)	Received	Date: 5/22/2014 10:00:00 AM	[			
Analyses	Result	RL Qual	Units	DF Date Analyzed	Batch			
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS			Analys	st: . BCN			
Diesel Range Organics (DRO)	260	10	ma/Ka	1 5/22/2014 12:23:09 PI	M 13310			

Diesel Range Organics (	(DRO)	260	10		тд/кд	1	5/22/2014 12:23:09 PIM	13310
Surr: DNOP		80.0	57.9-140		%REC	1	5/22/2014 12:23:09 PM	13310
EPA METHOD 8015D:	GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organic	cs (GRO)	20	3.9		mg/Kg	1	5/22/2014 11:18:28 AM	R18795
Surr: BFB		203	80-120	S	%REC	1	5/22/2014 11:18:28 AM	R18795
EPA METHOD 8021B:	VOLATILES						Analyst:	NSB
Benzene		ND	0.039		mg/Kg	1	5/22/2014 11:18:28 AM	R18795
Toluene		ND	0.039		mg/Kg	1	5/22/2014 11:18:28 AM	R18795
Ethylbenzene		ND	0.039		mg/Kg	1	5/22/2014 11:18:28 AM	R18795
Xylenes, Total		0.21	0.079		mg/Kg	1	5/22/2014 11:18:28 AM	R18795
Surr: 4-Bromofluorobe	enzene	111	80-120		%REC	1	5/22/2014 11:18:28 AM	R18795

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 analysis	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 4
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	rage 1 01 4
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

WO#: 1405955

23-May-14

Client: Project:	Animas E CoP SJ 2	Environmental 9-6 #84			·						
Sample ID	MB-13310	SampType	: ME	BLK	Tes	tCode: I	EPA Method	8015D: Dies	el Range (	Organics	- ·
Client ID:	PBS	Batch ID	: 13	310	F	RunNo:	18788				
Prep Date:	5/22/2014	Analysis Date	: 5/	22/2014	5	SeqNo:	542553	Units: mg/k	(g		
Analyte				SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range ( Surr: DNOP	Organics (DRO)	ND 7.4	10	10.00		73.9	57.9	140			
Sample ID	LCS-13310	SampType	: LC	S	Tes	tCode: I	EPA Method	8015D: Dies	el Range (	Organics	
Client ID:	LCSS	Batch ID	: 13	310	F	RunNo:	18788				
Prep Date:	5/22/2014	Analysis Date:	5/	22/2014	S	SeqNo:	542555	Units: mg/H	(g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Drganics (DRO)	47	10	50.00	0	94.4		145			
Surr: DNOP.	. <u></u>	3.9		5.000		78.1	57.9	140			
Sample ID	1405955-001AMS	SampType	: MS	3	Tes	tCode: E	EPA Method	8015D: Dies	el Range (	Drganics	
Client ID:	SC-9	Batch ID:	13:	310	R	lunNo:	18788				
Prep Date:	5/22/2014	Analysis Date:	5/	22/2014	S	eqNo:	542702	Units: mg/M	(g		
Analyte		Result P	QL_	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	390	10	50.10	257.4	259		152			S
Surr: DNOP		5.2		5.010		104	57.9	140			
Sample ID	1405955-001AMS	) SampType	: MS	SD	Tes	tCode: E	EPA Method	8015D: Dies	el Range (	Drganics	
Client ID:	SC-9	Batch ID:	13:	310	R	unNo:	18788				
Prep Date:	5/22/2014	Analysis Date:	5/:	22/2014	S	eqNo:	542711	Units: mg/k	(g		
Analyte		Result P	QL_	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Drganics (DRO)	330	10	49.95	257.4	149		152	15.4	32.1	
Surr: DNOP		5.5		4.995		110	57.9	140	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 greater than 2.
- RL Reporting Detection Limit

Page 2 of 4

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### Client: Animas Environmental

**Project:** CoP SJ 29-6 #84

Sample ID MB-13281 MK	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	n <b>i</b> D: <b>R1</b>	8795	F	RunNo: 1	8795				
Prep Date:	Analysis D	)ate: <b>5</b> /	22/2014	S	SeqNo: 5	43110	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 830	5.0	1000		83.0	80	120			
Sample ID LCS-13281 MK	 SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
	Campi							-		
Client ID: LCSS		n ID: <b>R1</b>	8795	F	RunNo: 1	8795		-		
Client ID: LCSS					RunNo: 1 SeqNo: 5		Units: <b>mg/K</b>	(g		
Client ID: LCSS Prep Date:	Batch		22/2014				Units: <b>mg/K</b> HighLimit	kg %RPD	RPDLimit	Qual
	Batch Analysis D	ate: 5/	22/2014	S	SeqNo: 5	43111	U U	0	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 greater than 2.
- RL Reporting Detection Limit

Page 3 of 4

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1405955

WO#:

23-May-14

WO#: 1405955

23-May-14

	s Environme 29-6 #84	ental								
Sample ID MB-13281 MK	Samp	Туре: МІ	3LK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: <b>R1</b>	8795	F	RunNo: 1	8795				
Prep Date:	Analysis [	Date: 5/	22/2014	S	SeqNo: 5	43178	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050							•	
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.5	80	120			
Sample ID LCS-13281 MK	Samp	- Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: <b>R1</b>	8795	F	RunNo: 1	8795				
Prep Date:	Analysis [	Date: <b>5</b> /	22/2014	S	SeqNo: 5	43180	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	103	80	120			
Foluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.5	80	120			
(ylenes, Total	2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	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 greater than 2.
- RL Reporting Detection Limit

Page 4 of 4

ENVIRONMENTAL ANALYSIS LABORATORY	Albuq TEL: 505-345-3975 F Website: www.hall	uerqu FAX: 5		s Sam	ple Log-In C	heck List
Client Name: Animas Environmental W	ork Order Number:	14059	955		RcptNo:	1
Received by/date: C57	2.14					
Logged By: Lindsay Mangin 5/22	/2014 10:00:00 AM		6	And in the first of the second		
Completed By: Lindsay Mangin 5/22	/2014 10:15:45 AM		-	- finderf Herpo		
Reviewed By: CS 05	22/14		L			
Chain of Custody						
1. Custody seals intact on sample bottles?		Yes		No 🗌	Not Present 🗹	·
2. Is Chain of Custody complete?		Yes		No 🗌	Not Present	
3. How was the sample delivered?		<u>Cour</u>	ier			
Log In						
4. Was an attempt made to cool the samples?		Yes	$\checkmark$	No 🗌	na 🗆	
5. Were all samples received at a temperature of >	0° C to 6.0°C	Yes	V	No 🗌	NA 🗔	
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 pre	eserved?	Yes		No 🗌		
9. Was preservative added to bottles?		Yes		No 🗹	na 🗆	
10.VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broken?		Yes		No 🗹	# of preserved	
12. Does paperwork match bottle labels?		Yes		No 🗖	bottles checked for pH:	r >12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Cust	odv?	Yes		No 🗆	Adjusted?	
14, Is it clear what analyses were requested?		Yes				
15. Were all holding times able to be met?		Yes		No 🗀	Checked by:	
(If no, notify customer for authorization.)				L	· ·	
<u>Special Handling (if applicable)</u>						
16. Was client notified of all discrepancies with this o	rder?	Yes		No 🗌	NA 🗹	
Person Notified:	Date:					]
By Whom:	Via:	] eMa	il 🔲 Pho	ne 📋 Fax	In Person	
Regarding:						
Client Instructions:						

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17. Additional remarks:

18. Cooler Information

Cooler No	Tëmp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Page 1 of 1

		Environm	nextal Services, LL	□ Standard Project Name		<u>. Same Vonj</u> 84				A		LY	SI	5 L	.AE	30	1en Rat		
					1 21-6#	٥٦ 	1	490	)1 Ha	awkin	s NE	- Al	buqu	erqu	e, NI	M 87	109		
Farm	ington	MM	87401	Project #:			Sec. St.				-3975					4107		1	and the second
Phone # email or		5-564-	- 2281	Project Mana	der							Anai		Req	uest				S. San
QAVQC I Stan	Package: dard		Level 4 (Full Validation)	-i	7		<b>TWES</b> (8021)	(Gas on	RO / M		SIMS)		PO4,SO	2 PCB's					
Accredi		Othe	r	Sampler: E	. Skyles	star and a star a st	開	TPH	0/0	8.1)	4.1) 3270 :		NON	/ 808;					14
				SampleTen	ielėjūjė s	C. C	KH KH	н ВП Н	9 20 20	d 41		tals	NON.	ides	2	Š	{		ت ک
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MERC)	TPH (Method 418.1)	ELDB (Method 504.1) PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB	8260B (VOA)	8270 (Semi-VOA)			Air Ruhhlae
5/21/14	10:32	Soil	SC-9	1-402 Martin	non U.OH	-001	X		X										
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		<u> </u>	· · · · · · · · · · · · · · · · · · ·								+-	1	1						
Date:	Time: 1437 Time: 1860	Relinquish	The Wester (	Received by:		Pate Time 5/21/1/ 1437 Date Time 5/21/4/1000			_								5 . Ki 5/:		14
- 1	f necessary,	samples subr	nitted to Hall Environmental may be subc	ontracted to other at	credited laboratorio	es. This serves as notice of this	; possit	oility. A	ny sub	-contra	cted dat	a wii) b	ø clear	ly nota	ted on	the an	alytical re	port.	

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سین بنی سینی ادیاست بس میرا مراجب ایجا د

### HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 05, 2014

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

RE: CoP San Juan 29-6 #84

OrderNo.: 1406153

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/4/2014 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

	······································									
<b>CLIENT:</b> Animas Environmental			C	lient Sampl	l <b>e ID:</b> Ba	sc				
Project: CoP San Juan 29-6 #84	Collection Date: 6/3/2014 9:25:00 AM									
Lab ID: 1406153-001	Matrix:	MEOH (Se	OIL)	Received	<b>Date:</b> 6/4	/2014 10:00:00 AM				
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN			
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/4/2014 11:46:55 AM	13510			
Surr: DNOP	89.8	57.9-140		%REC	1	6/4/2014 11:46:55 AM	13510			
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB			
Gasoline Range Organics (GRO)	12	2.4		mg/Kg	1	6/4/2014 1:30:02 PM	R19040			
Surr: BFB	204	80-120	S	%REC	1	6/4/2014 1:30:02 PM	R19040			
EPA METHOD 8021B: VOLATILES						Analyst	: NSB			
Benzene	ND	0.024		mg/Kg	1	6/4/2014 1:30:02 PM	R19040			
Toluene	ND	0.024		mg/Kg	1	6/4/2014 1:30:02 PM	R19040			
Ethylbenzene	ND	0.024		mg/Kg	1	6/4/2014 1:30:02 PM	R19040			
Xylenes, Total	0.42	0.048		mg/Kg	1	6/4/2014 1:30:02 PM	R19040			

80-120

%REC

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6/4/2014 1:30:02 PM

R19040

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# Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

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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	I-I	Holding times for preparation or analysis	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 4
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 450 1 01 1
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report Lab Order 1406153 Date Reported: 6/5/2014

WO#: 1406153

05-Jun-14

Client:Animas EnvironmentalProject:CoP San Juan 29-6 #84

Sample ID MB-13510	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID: PBS	Batch	D: 13	510	F	RunNo: 1	9030				
Prep Date: 6/4/2014	Analysis D	ate: 6/	4/2014	S	SeqNo: 5	50025	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.2		10.00		81.9	57.9	140			
Sample ID LCS-13510	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Drganics	
	•									
Client ID: LCSS	Batch	n ID: 13	510	F	RunNo: 1	9030				
Client ID: LCSS Prep Date: 6/4/2014	Batch Analysis D				RunNo: 1 SeqNo: 5		Units: <b>mg/H</b>	ίg		
			4/2014				Units: <b>mg/F</b> HighLimit	Kg 	RPDLimit	Qual
Prep Date: 6/4/2014	Analysis D	ate: 6/	4/2014	S	SeqNo: 5	50027	Ū	-	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 greater than 2.
  - RL Reporting Detection Limit

Page 2 of 4

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## QC SUMMARY REPORT

Hall Environmental	Analysis Laboratory, Inc.
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WO#: 1406153

05-Jun-14

	as Environme San Juan 29-6													
Sample ID MB-13489 MH	samp	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Bato	Batch ID: R19040			RunNo: 19040									
Prep Date:	Analysis I	Analysis Date: 6/4/2014			SeqNo: 5	50213	Units: mg/k							
Analyte	Result	PQL	SPK value	SPK Ref Val	. %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO) Surr: BFB	ND 870	5.0	1000		86.6	80	120							
Sample ID LCS-13489 M	TestCode: EPA Method 8015D: Gasoline Range													
Client ID: LCSS	Batc	h ID: <b>R1</b>	9040	F	RunNo: 1	9040								
Prep Date:	Analysis I	Date: 6/	4/2014	S	SeqNo: 5	50214	Units: mg/k	۲g						
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	71.7	134							
Surr: BFB	1000		1000		100	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 greater than 2.
- RL Reporting Detection Limit

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### Client: Animas Environmental

Project: CoP San Juan 29-6 #84

Sample ID MB-13489 MK	Samp1	Гуре: МЕ	3LK	Tes	PA Method	8021B: Volat	tiles				
Client ID: PBS	Batcl	h ID: <b>R1</b>	9040	F	unNo: 1	9040					
Prep Date:	Analysis D	Date: 6/4/2014		S	eqNo: 5	50232	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050					_				
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10	,								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120				
Sample ID LCS-13489 MK	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batcl	h ID: <b>R1</b>	9040	R	lunNo: 1	9040					
Prep Date:	Analysis Date: 6/4/2014 SeqNo: 550233				50233	Units: mg/K	ίg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.2	0.050	1.000	0	118	80	120				
Toluene	1.1	0.050	1.000	0	108	80	120				
Ethylbenzene	1.1	0.050	1.000	0	106	80	120				
Xylenes, Total	3.1 0.10 3.000 0 104 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 greater than 2.
- RL Reporting Detection Limit

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1406153 *05-Jun-14* 

WO#:

ENVIRONMENTAL ANALYSIS	ental Analysis Laborat 4901 Hawkins Albuquerque, NM 871 3975 FAX: 505-345-41	<sup>NE</sup> 105 Sam	Sample Log-In Check Lis								
Website: www	w:hallenvironmental.c	om									
Client Name: Animas Environmental Work Order Num	16er: 1406153		RcptNo:	1							
Received by/date: Ole D414											
Logged By: Lindsay Mangin 6/4/2014 10:00:00	AM	High									
Completed By: Lindsay Mangin 6/4/2014 10:18:58	AM	Andietita									
Reviewed By: A DC /D4//L		000									
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?	Courier										
<u>Log In</u>	_										
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 🗌									
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 🗌								
	Mar 🖂	No. [7]	No VOA Vials 🗹								
10.VOA vials have zero headspace? 11. Were any sample containers received broken?	Yes └─ <sub>Yes</sub> └─	No ∐ No ☑ [									
	Tes		# of preserved bottles checked								
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	. for pH:								
(Note discrepancies on chain of custody)			(<2 or Adjusted?	>12 unless noted)							
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🛄	Aujusteu ?								
14. Is it clear what analyses were requested?	Yes 🗹		Checked by:								
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗋 🛛									
Special Handling (if applicable)											
16. Was client notified of all discrepancies with this order?	Yes	No 🗌									
Person Notified: Date	e:										
By Whom: Via:	🗌 eMail 📋 Ph	one 🗌 Fax	In Person								
Regarding:			and a shall a first a share there are								
Client Instructions:		·····	· · · · ·								
17. Additional remarks:											
18. <u>Cooler Information</u>											
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date S	Signed By									
1 1.6 Good Yes	<u>.                                    </u>		·								

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Chain-of-Custody Record			Turn-Around Time:						-	6 . <b>G</b> . 1	* 8					a i a	<b>.</b>				
Client:	Anim	ins Fin	vivomental	Distandard X Rush Same days Project Name: COP San Juan 29-6 #84				HALL ENVIRONMENTAL													•
Client: Animas Enviromental			Project Name: A				www.hallenvironmental.com														
Mailing Address: 624 & Comanche			(AD Can here 29-1 #84				4901 Hawkins NE - Albuquerque, NM 87109														
624 & lonauche			Project #:																		
<u>ta</u>	mug	on NJ	1 87481				÷.	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request												E.	
Famuelon Nu 87401 Phone #: 505 - 564 2881						ړي. پر					~ · ·		req	uesi		5			27		
email o		<u> </u>		Project Mana	ger:		1		MRO)					0,	S						
QA/QC Package:			1 Walson				+ <b>TEN</b> (8021)	~			SIMS)		PO4,	2 PCB's							
Accred			<u> </u>	Sampler: S	· Lynn	· .		副		1	<del>,</del>	2		Š	80	ĺ					<del>,</del>
		D Othe	er	On Ice					-  / ĝ	1 8	<u>8</u>	82	5	ő	s/8		(A			1	or
	EDD (Type)Sample				ple l'emperature				<u>ال</u> ا	Ŋ Ā	- bo	0 0	etal	Z,	cide	F	Ň				ک «
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type				TPH 8015B (GROTORO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
	ļ			Anothket	MEOH		5  .				Ξ	<u>a</u>	Ř	₹	<u></u>	8	8	-+			Ai
<u>,-3-14</u>	0925	Soil	Base	Fozyar	cold	- 00		X	X	<u> </u>											
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	Time:	Relinquish	ed by:	Received by:	· · · · · ·			Rema	irks:	frill	to	Co	noc	o Pl	villy	'n		IL			- <b>L</b>
12/14	1493 Time:	Relinguish	here Alin	Received by:	haller	L <u>73/14</u> 10 Date Time	42			••											
el3/11+	TID	Chre	the Waltons )			CHING LOCC								-							• •
1	f necessary	samples subr	mitted to Hall Environmental may be sub	contracted to other a	ccredited laboratorio			ossibili	ty. Any	sub-co	ntracte	d data	will be	e clear	ly nota	ated or	n the a	nalytica	al report		۶ ۲