State of New Mexico Energy Minerals and Natural Resources

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

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

229.5.9. Francis Dar. Stanta Fr, IMM 97503 Stanta Fe, IMM 97505 Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company Burlington Resources, a Wholly Owned Contact. Lisa Hunter Subsidiary of Concorributions Company Address Mel E. Subs St., Farmington, NM 87402 Telephone No. 505-326-9786 Facility Nume San Juan 28-4 Unit 27A Facility Type Ges Well Sufface Owner Federal API No. 3003926785 Last Water Society OCONTON OF RELEASE Unit Letter Social So BLs Only 004W Social So BLs Country NATURE OF RELEASE Volume of Relaxes 55 BLs Volume Recovered 0 BBLs Social Country Visc of Relaxes Produced Water Tonk Date and Hoor of Discovery Visc of Relaxes Produced Water Tonk Date and Hoor of Discovery Visc of Relaxes Produced Water Tonk Date and Hoor of Discovery Visc of Relaxes Produced Water Tonk Date and Hoor of Discovery Visc of Relaxes SD BLs Volume Recovered	District IV		T	-	1220	South	St. Franc	is Dr.						
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E-mail Address: lisa.hunter@conocophillips.com Conditions of Approval: Attached Attached	Printed Name	e: Lisa Hu	nter							- prov	VV2	140	WX	
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Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

June 24, 2013

Lisa Hunter ConocoPhillips San Juan Business Unit Office 214-4 5525 Hwy 64 Farmington, New Mexico 87401

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

RE: Initial Release Assessment and Final Excavation Report San Juan 28-4 #27A Rio Arriba County, New Mexico

Dear Ms. Hunter:

On February 21, April 23, April 25, and April 29, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 28-4 #27A, located in Rio Arriba County, New Mexico. Following a reported release from the onsite below grade tank, AES completed an initial release assessment on February 21, 2013. The final excavation was completed by contractors prior to AES' arrival to the location on April 29, 2013.

1.0 Site Information

1.1 Location

Location - SW¼ SE¼, Section 19, T28N, R4W, Rio Arriba County, New Mexico Well Head Latitude/Longitude – N36.64183 and W107.28809, respectively Release Location Latitude/Longitude – N36.64162 and W107.28819, respectively Land Jurisdiction – U.S. Forest Service Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, February 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated October 2009 for the San Juan 28-4 #27A reported the depth to groundwater as 130 feet below ground surface (bgs). The New Mexico

Lisa Hunter San Juan 28-4 #27A Initial Release Assessment and Final Excavation Report June 24, 2013 Page 2 of 7

Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<u>http://ford.nmt.edu/react/project.html</u>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. An unnamed wash is located approximately 800 feet north of the location and drains to Oso Canyon, while another unnamed wash located approximately 800 feet southwest and 800 feet southeast drains to Munoz Canyon. Based on this information, the location was assessed a ranking score of 10 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Assessments

AES was initially contacted by Lisa Hunter of CoP on February 18, 2013, and on February 21, 2013, Heather Woods and Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field screening of 12 soil samples from four soil borings (SB-1 through SB-4). Based on field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On April 23, 2013, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The excavation was approximately 53 feet by 43 feet by 15 feet in depth. While on site, AES identified an area of concern near soil sample SC-5 where visible soil contamination was observed and confirmed during field screening. The excavation was extended to a depth of 18 feet, and on April 25, 2013, AES returned to collect soil sample SC-6. Based on field screening and laboratory analytical results, further excavation was recommended. The final depth of the excavation was determined by a competent sandstone layer encountered at 23 feet bgs. Sample SC-7 was collected from the base of the excavation on April 29, 2013. The final excavation was approximately 53 feet by 23 feet in depth. Sample locations and final excavation extents are shown on Figure 4.

2.0 Soil Sampling

A total of 12 soil samples from SB-1 through SB-4 and seven composite samples (SC-1 through SC-7) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and select soil samples were analyzed for total petroleum hydrocarbons (TPH). Six of the soil samples collected during the

assessment (SC-1 through SC-4, SC-6, and SC-7) were also submitted for confirmation laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis (SC-1 through SC-4, SC-6, and SC-7) were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

 Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B/8260B.

Soil samples SC-6 and SC-7 were also laboratory analyzed for:

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

2.3 Field Screening and Laboratory Analytical Results

On February 21, 2013, initial assessment field screening readings for VOCs via OVM ranged from 4.0 ppm in SB-1 up to 2,492 ppm in SB-3. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-1 to greater than 5,000 mg/kg in SB-3.

On April 23, 2013, excavation field screening results for VOCs via OVM showed concentrations ranging from 259 ppm in SC-2 to 3,360 ppm in SC-5. Field TPH concentrations ranged from 50.6 mg/kg in SC-3 to greater than 2,500 mg/kg in SC-5. On

Lisa Hunter San Juan 28-4 #27A Initial Release Assessment and Final Excavation Report June 24, 2013 Page 4 of 7

April 25, 2013, excavation field screening results for VOCs via OVM showed a concentration of 3,045 ppm in SC-6 and a field TPH concentration of 3,040 mg/kg. On April 29, 2013, field screening results for VOCs via OVM showed a concentration of 2,218 ppm and a field TPH concentration greater than 2,680 mg/kg in SC-7. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

	Februa	ry and April	2013			
Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)		
NMO	CD Action Lev	vel*	100	1,000		
SB-1	2/21/13	0	4.0	<20.0		
SB-2	2/21/13	0	1,561	>2,500		
		0	1,901	NA		
SB-3	2/21/13	2	1,979	NA		
	•	3.5	2,492	>5,000		
		0	1,463	NA		
		2	524	NA		
	-	4	1,930	NA		
SB-4	2/21/13	6	2,118	NA NA NA NA NA		
		8	2,359	NA		
		10	1,540	NA NA NA		
		12	2,091	>2,500		
SC-1	4/23/13	1 to 15	502	967		
SC-2	4/23/13	1 to 15	259	158		
SC-3	4/23/13	1 to 15	284	50.6		
SC-4	4/23/13	1 to 15	540	114		
SC-5	4/23/13	15	3,360	>2,500		
SC-6	4/25/13	18	3,045	3,040		
SC-7	4/29/13	23	2,218	2,680		

Table 1. Soil Field Screening VOCs and TPH Results San Juan 28-4 #27A Initial Release Assessment and Final Excavation

NA – Not Analyzed

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

In April 2013, laboratory analytical results for SC-1 through SC-4, SC-6, and SC-7 were used to confirm field screening results from excavation activities. Benzene concentrations ranged from less than 0.50 mg/kg in SC-1 through SC-4 and SC-7 up to 0.29 mg/kg in SC-6. BTEX concentrations ranged from 0.25 mg/kg in SC-3 up to 60 mg/kg in SC-6. TPH concentrations (as GRO/DRO) were reported at 2,300 mg/kg (SC-6) and 1,450 mg/kg (SC-7). Results are presented in Table 2 and on Figure 4. Laboratory analytical reports are attached.

	••••			Encaracio		
			April 2013	_		
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	1,0	000
SC-1	4/23/13	1 to 15	<0.50	4.7	NA	NA
SC-2	4/23/13	1 to 15	<0.050	2.1	NA	NA
SC-3	4/23/13	1 to 15	<0.050	0.25	NA	NA
SC-4	4/23/13	1 to 15	<0.50	1.7	NA	ŅA
SC-6	4/25/13	18	0.29	60	900	1,400
SC-7	4/29/13	23	<0.50	24	350	1,100

Table 2. L	aboratory Analytical Results – Benzene, Total BTEX, and TPH
	San Juan 28-4 #27A Final Excavation

NA – Not Analyzed

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

3.0 Conclusions and Recommendations

On February 21, 2013, AES conducted an initial assessment associated with a release from the onsite below grade tank at the San Juan 28-4 #27A. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10. Field screening results above the NMOCD action levels of 100 ppm VOCs and 1,000 mg/kg TPH were reported in SB-2 through SB-4. The highest VOC concentration was 2,492 ppm in SB-3, and the highest TPH concentration was reported as greater than 5,000 mg/kg in SB-3.

On April 23, April 25, and April 29, 2013, final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations exceeded the NMOC action level of 100 ppm for VOCs in all of the final four walls and the base. Field TPH concentrations above the applicable NMOCD action level of 1,000 mg/kg were reported in base samples SC-5 (>2,500 mg/kg), SC-6 (3,040

Lisa Hunter San Juan 28-4 #27A Initial Release Assessment and Final Excavation Report June 24, 2013 Page 6 of 7

mg/kg), and SC-7 (2,680 mg/kg). Laboratory analytical results from April 23, 2013, reported benzene and total BTEX concentrations below NMOCD action levels in all of the final four walls. TPH concentrations as GRO/DRO were reported above the NMOCD action level of 1,000 mg/kg in SC-7, the final base sample, with 1,450 mg/kg. Continued excavation was not possible due to the presence of a competent sandstone layer at 23 feet bgs.

Based on final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-4 #27A, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls of the excavation. However, the base of the excavation exceeded the applicable NMOCD action level for TPH. On April 30, 2013, Lisa Hunter of CoP received approval to backfill the excavation from Brandon Powell, NMOCD; J.J. Miller, U.S. Forest Service; and Mark Kelly, BLM. On May 1, 2013, the excavation was subsequently backfilled. No further work is recommended at the San Juan 28-4 #27A.

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

Sincerely,

stephanicolyn

Stephanie A. Lynn, EIT

Elizabith V Mervelly-

Elizabeth McNally, PE

Lisa Hunter San Juan 28-4 #27A Initial Release Assessment and Final Excavation Report June 24, 2013 Page 7 of 7

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, February 2013

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

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

AES Field Screening Report 022113

AES Field Screening Report 042313

AES Field Screening Report 042513

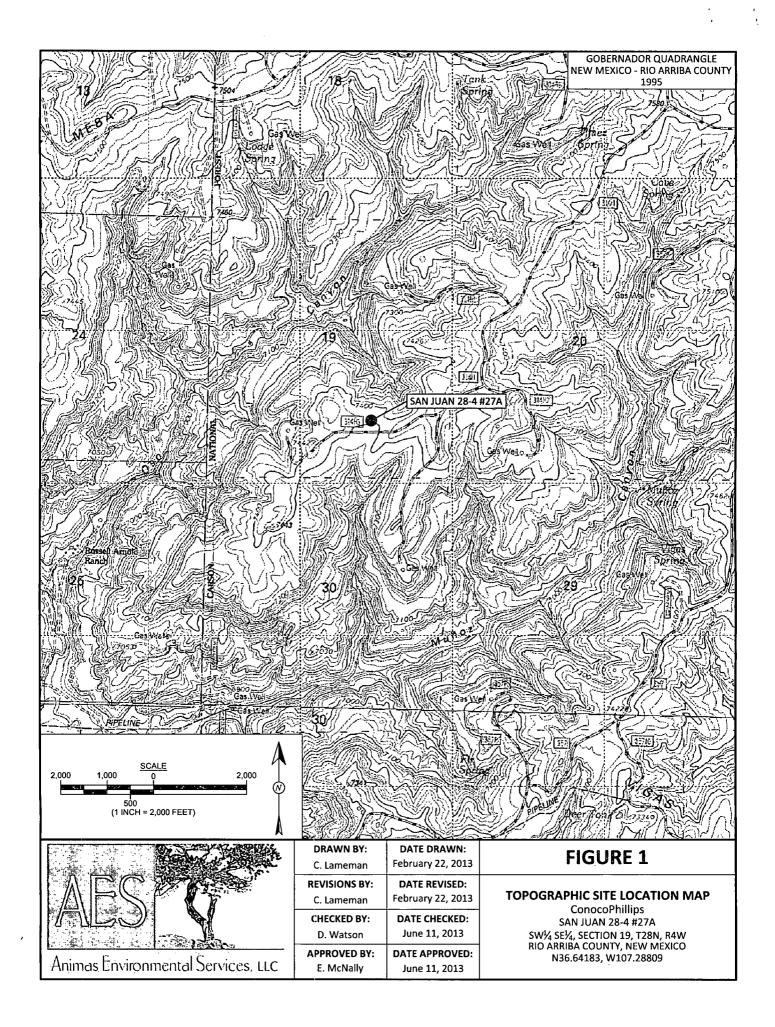
AES Field Screening Report 042913

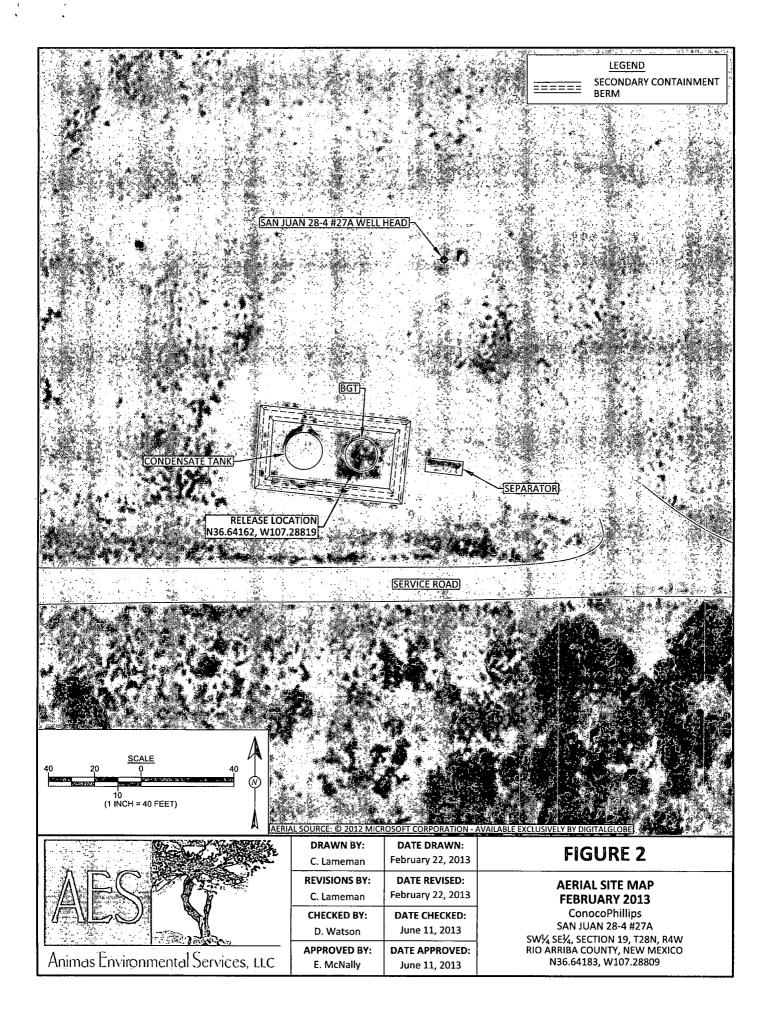
Hall Laboratory Analytical Report 1304948

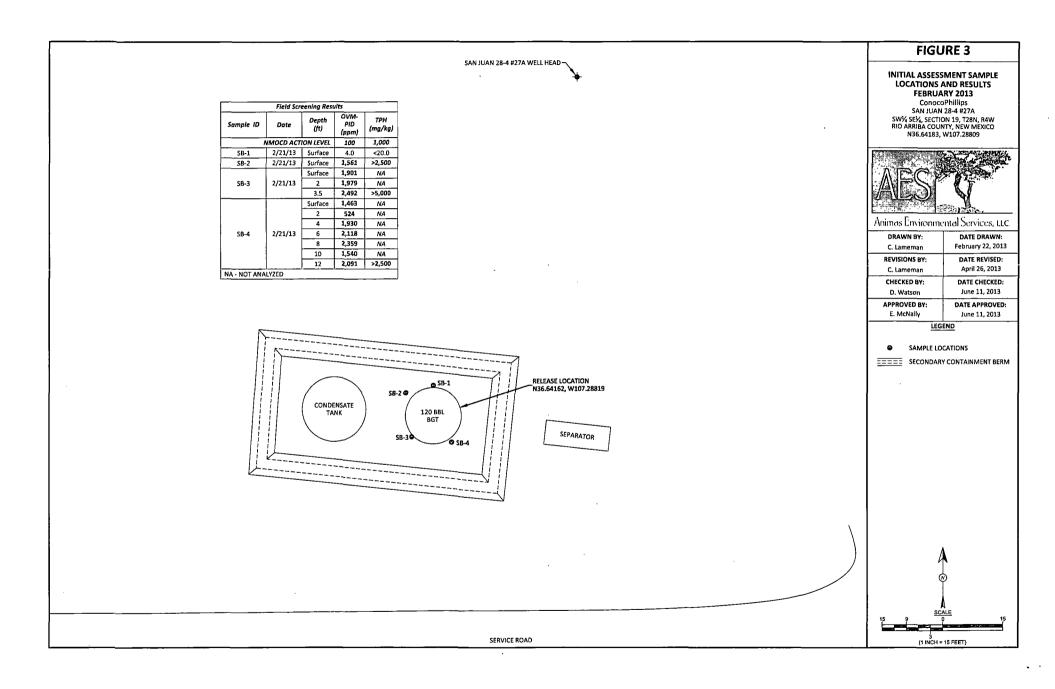
Hall Laboratory Analytical Report 1304A79

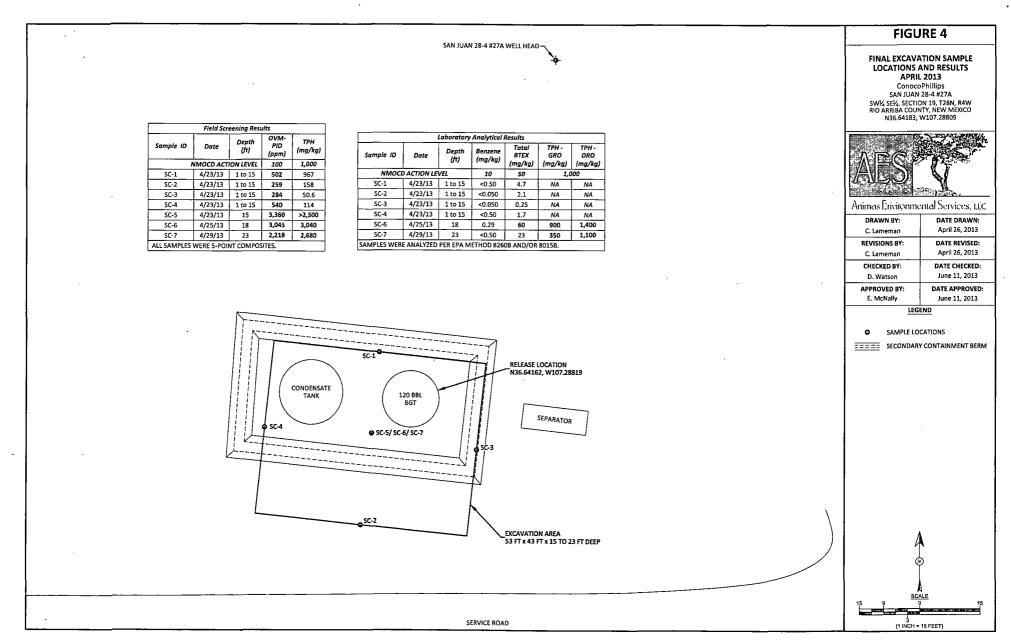
Hall Laboratory Analytical Report 1304B57

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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 28-4 #27A
Date: 2/21/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
SB-1@surface	2/21/2013	11:40	4.0	15:26	<20.0	20.0	1	HMW	
SB-2@surface	2/21/2013	11:45	1,561	15:28	>2,500	20.0	1	нмw	
SB-3@surface	2/21/2013	11:49	1,901	Not Analyzed for TPH					
SB-3@ 2'	2/21/2013	11:53	1,979	Not Analyzed for TPH					
SB-3@3.5'	2/21/2013	11:56	2,492	15:31	>5,000	40.0	1	HMW	
SB-4@surface	2/21/2013	12:08	1,463		Not Ar	alyzed for TP	Н		
SB-4@2'	2/21/2013	12:10	524		Not Ar	nalyzed for TP	H		
SB-4@4'	2/21/2013	12:12	1,930		Not Ar	nalyzed for TP.	H		
SB-4@6'	2/21/2013	12:14	2,118		Not Ar	nalyzed for TP	Н		
SB-4@8'	2/21/2013	12:16	2,359		Not Ar	nalyzed for TP	Η		
SB-4@10'	2/21/2013	12:18	1,540	Not Analyzed for TPH					
SB-4@12'	2/21/2013	12:20	2,091	15:33	>2,500	20.0	1	нмw	

PQL Practical Quantitation Limit

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

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analysts:

Aleather M. Wood

Client: ConocoPhillips

Date: 4/23/2013

Project Location: San Juan 28-4 #27A

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Sample Depth (ft)	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/23/2013	1 to 15	13:18	North Wall	502	14:26	967	20.0	1	HMW
SC-2	4/23/2013	1 to 15	13:21	South Wall	259	14:28	158	20.0	1	HMW
SC-3	4/23/2013	1 to 15	13:24	East Wall	284	14:30	50.6	20.0	1	HMW
SC-4	4/23/2013	1 to 15	13:27	West Wall	540	14:33	114	20.0	1	HMW
SC-5	4/23/2013	15	13:30	Base	3,360	14:37	>2,500	20.0	1	HMW

PQL Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

Not Detected at the Reporting Limit ND

Not Analyzed NA

. .

- -

DF **Dilution Factor**

*Field TPH concentrations recorded may be below PQL.

Analyst:

Aleather M. Woods

- -



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 28-4 #27A

Date: 4/25/2013

Matrix: Soil

		Time of			Field TPH				
	Collection	Sample	Sample	OVM	Analysis	Field TPH*	TPH PQL		TPH Analysts
Sample ID	Date	Collection	Location	(ppm)	Time	(mg/kg)	(mg/kg)	DF	Initials
SC-6	4/25/2013	12:42	Base	3,045	12:59	3,040	200	10	HMW

PQL Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

NA Not Analyzed

DF Dilution Factor

*Field TPH concentrations recorded may be below PQL.

Analysts:

Aleather M. Woods

AES

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 28-4 #27A

Date: 4/29/2013

Matrix: Soil

		Time of			Field TPH				
	Collection	Sample	Sample	OVM	Analysis	Field TPH*	TPH PQL		TPH Analysts
Sample ID	Date	Collection	Location	(ppm)	Time	(mg/kg)	(mg/kg)	DF	Initials
SC-7	4/29/2013	14:05	Base	2,218	14:34	2,680	200	10	DAW

PQL Practical Quantitation Limit

.

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

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*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Debrah Water

HALL ENVIRONMENTAL ANALYSIS LABORATORY

April 29, 2013

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

RE: San Juan 28-4 # 27A

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

OrderNo.: 1304948

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/24/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. 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.

Sincerely,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1304948 Date Reported: 4/29/2013

CLIENT: Animas Environmental Service	ces	C	lient Sample	e ID: SC-1				
Project: San Juan 28-4 # 27A			Collection E	Date: 4/23/20	013 1:10:00 PM			
Lab ID: 1304948-001	Matrix:	MEOH (SOIL)	Received I	Received Date: 4/24/2013 9:54:00 AM				
Analyses	Result	RL Qual	Units	DF	Date Analyzed			
EPA METHOD 8260B: VOLATILES SH	ORT LIST				Analyst: RAA			
Benzene	ND	0.50	mg/Kg	10	4/24/2013 2:34:51 PM			
Toluene	ND	0.50	mg/Kg	10	4/24/2013 2:34:51 PM			
Ethylbenzene	ND	0.50	mg/Kg	10	4/24/2013 2:34:51 PM			
Xylenes, Total	4.7	1.0	mg/Kg	10	4/24/2013 2:34:51 PM			
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%REC	10	4/24/2013 2:34:51 PM			
Surr: 4-Bromofluorobenzene	88.0	70-130	%REC	10	4/24/2013 2:34:51 PM			
Surr: Dibromofluoromethane	93.3	70-130	%REC	10	4/24/2013 2:34:51 PM			
Surr: Toluene-d8	92.7	70-130	%REC	10	4/24/2013 2:34:51 PM			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH greater than 2

RL Reporting Detection Limit В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

=

Lab Order 1304948

Date Reported: 4/29/2013

CLIENT: Animas Environmental Ser Project: San Juan 28-4 # 27A	vices	Client Sample ID: SC-2 Collection Date: 4/23/2013 1:21:00 PM								
Lab ID: 1304948-002	Matrix:	MEOH (SOIL)		Date: 4/24/2013 9:54:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed					
EPA METHOD 8260B: VOLATILES SHORT LIST										
Benzene	ND	0.050	mg/Kg	1	4/24/2013 3:03:46 PM					
Toluene	0.081	0.050	mg/Kg	1	4/24/2013 3:03:46 PM					
Ethylbenzene	0.091	0.050	mg/Kg	1	4/24/2013 3:03:46 PM					
Xylenes, Total	1.9	0.10	mg/Kg	1	4/24/2013 3:03:46 PM					
Surr: 1,2-Dichloroethane-d4	94.5	70-130	%REC	1	4/24/2013 3:03:46 PM					
Surr: 4-Bromofluorobenzene	114	70-130	%REC	1	4/24/2013 3:03:46 PM					
Surr: Dibromofluoromethane	93.0	70-130	%REC	1	4/24/2013 3:03:46 PM					
Surr: Toluene-d8	101	70-130	%REC	1	4/24/2013 3:03:46 PM					

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits J

Р Sample pH greater than 2

RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1304948 Date Reported: 4/29/2013

CLIENT: Animas Environmental Ser	vices	C	Client Sample ID: SC-3								
Project: San Juan 28-4 # 27A		Collection Date: 4/23/2013 1:24:00 PM									
Lab ID: 1304948-003	Matrix:	MEOH (SOIL)	Received D	ate: 4/24/2	013 9:54:00 AM						
Analyses	Result	RL Qual	Units	DF	Date Analyzed						
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA						
Benzene	ND	0.050	mg/Kg	1	4/24/2013 3:32:18 PM						
Toluene	ND	0.050	mg/Kg	1	4/24/2013 3:32:18 PM						
Ethylbenzene	ND	0.050	mg/Kg	1	4/24/2013 3:32:18 PM						
Xylenes, Total	0.25	0.10	mg/Kg	1	4/24/2013 3:32:18 PM						
Surr: 1,2-Dichloroethane-d4	92.9	70-130	%REC	1	4/24/2013 3:32:18 PM						
Surr: 4-Bromofluorobenzene	97.9	70-130	%REC	1	4/24/2013 3:32:18 PM						
Surr: Dibromofluoromethane	93.0	70-130	%REC	1	4/24/2013 3:32:18 PM						
Surr: Toluene-d8	101	70-130	%REC	1	4/24/2013 3:32:18 PM						

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH greater than 2

RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1304948 Date Reported: 4/29/2013

CLIENT: Animas Environmental Service Project: San Juan 28-4 # 27A				Date: 4/13/20	013 1:27:00 PM
Lab ID: 1304948-004 Analyses	Matrix: Result	MEOH (SOIL) RL Oual		Date: 4/24/20 DF	013 9:54:00 AM Date Analyzed
EPA METHOD 8260B: VOLATILES SHO					Analyst: RAA
Benzene	ND	0.50	mg/Kg	10	4/24/2013 4:00:53 PM
Toluene	ND	0.50	mg/Kg	10	4/24/2013 4:00:53 PM
Ethylbenzene	ND	0.50	mg/Kg	10	4/24/2013 4:00:53 PM
Xylenes, Total	1.7	1.0	mg/Kg	10	4/24/2013 4:00:53 PM
Surr: 1,2-Dichloroethane-d4	90.9	70-130	%REC	10	4/24/2013 4:00:53 PM
Surr: 4-Bromofluorobenzene	92.4	70-130	%REC	10	4/24/2013 4:00:53 PM
Surr: Dibromofluoromethane	94.9	70-130	%REC	10	4/24/2013 4:00:53 PM
Surr: Toluene-d8	93.5	70-130	%REC	10	4/24/2013 4:00:53 PM

Qualifiers:

*

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH greater than 2
- RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S

QC SUMMARY REPORT

Hal		Er	ivi	ro	nn	ien	tal	A	Ana	ly	sis	s L	a	bora	tory	γ,	Inc.	,
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	Environme a 28-4 # 27		vices							
Sample ID 5ml rb	 Samp ⁻	Гуре: МВ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: PBS	Batc	h ID: R1	0086	F	RunNo: 1	0086				
Prep Date:	Analysis [Date: 4/	24/2013	S	SeqNo: 2	87318	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: 1,2-Dichloroethane-d4	0.45		0.5000		89.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.1	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.1	70	130			
Surr: Toluene-d8	0.46		0.5000		92.3	70	130			
Sample ID 100ng Ics	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS	Batc	h ID: R1	0086	ਜ	RunNo: 1	0086				
Prep Date:	Analysis E	Date: 4/	24/2013	S	SeqNo: 2	87319	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	70	130			
Toluene	1.1	0.050	1.000	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		93.0	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.3	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.1	70	130			
Surr: Toluene-d8	0.48		0.5000		96.0	70	130			
Sample ID 1304945-001a ms	s Sampi	Гуре: М		Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: R1	0086	F	RunNo: 1	0086				
Prep Date:	Analysis [Date: 4/	24/2013	S	eqNo: 2	87325	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0.003037	99.4	67.5	124			
Toluene	1.1	0.050	1.000	0	114	55.8	142			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.4	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.6	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130		. ==	
Sample ID 1304945-001a ms	d Samp1	Гуре: М.	SD	Tes	Code: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batcl	h ID: R1	0086	R	tunNo: 10	0086				
Prep Date:	Analysis D	Date: 4/	24/2013	S	eqNo: 28	87340	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0.003037	94.8	67.5	124	4.69	20	
Toluene	1.1	0.050	1.000	0	110	55.8	142	3.63	20	
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Page 5 of 6

WO#: 1304948

29-Apr-13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Animas Environmental Services

Project: San Juan 28-4 # 27A

Sample ID	1304945-001a msd	SampT	ype: M	SD	Test	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID:	BatchQC	Batch	ID: R 1	10086	R	RunNo: 10	0086				
Prep Date:		Analysis D	ate: 4	/24/2013	S	SeqNo: 21	87340	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.46		0.5000		91.2	70	130	0	0	
Surr: Dibrom	ofluoromethane	0.45		0.5000		90.3	70	130	0	0	
						102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 6 of 6

WO#: 1304948

29-Apr-13

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3	ntal Analysis Labora 4901 Hawkins Albuquerque, NM 87 3975 FAX: 505-345-4 w.hallenvironmental.		ple Log-In Cl	neck List
Client Name: Animas Environmental Work Order Num	ber: 1304948		RcptNo:	1
Received by/date: A OLF Z4	3		····	
Logged By: Lindsay MangIn 4/24/2013 9:54:00	АМ	Andyther		
Completed By: Lindsay Mangin 4/24/2013 10:11:42	2 AM	Junki Hlopp		
Reviewed By: MA U12413		V		
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?	Client			
<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° 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:	>12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗆	Adjusted?	P 12 unicas noteu)
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:	
<u>Special Handling (if applicable)</u> 16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗔	NA 🗹	
]
Person Notified: Date	•• · · · · · · · · ·			
By Whom: Via: Regarding:	eMail F	hone 🗌 Fax	In Person	
Client Instructions:	n man an Araban an Araban an Araban An an	an dila and alla sa 1927 atau di Patan Sala ali ang mangan Mangang mangang kang mangang mangang kang mangang kang mangang kang mangang kang mangang kang mangang kang mang Mangang mangang kang	anna dha an an tao an taibh abha dha dha dha dha an tao an tao an tao an taibh Anna an taibh	
		1997 - 986 - 1997 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1	19. a. e.	J

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	Yes			

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_ _ -

С	hain	-of-Cu	stody Record	Turn-Around	Time:													.	
Client:	tnima	s Fr	vironmental	- □ Standard	🕅 Rusi	Same Day													r
	Servia	·o <		Project Name	э:	J			1999 - 1999 2					onmei					
Mailing	Address	624	E. Comanche	San Ju	av 28-4	Same Day		49	01 H					querq			7109		
Fa	mins	ton N	M B7401	Project #:							15-39			x 50					
		564-2		1			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5												
email or		2010		Project Mana	iger:					<u>Na (</u>		Ī		_					
QA/QC I	Package:		Level 4 (Full Validation)		Watso	^	(8021)	(Gas on	RO / MF			SIMS)		PCB's					
Accredi		D Othe	r	Sampler: 🧲 On Ice	L/HU	2 □ No		+ TPH	so / Dł	418.1)	04.1)	8270		/3, NU2		A			or N)
	(Type)			Sample Tem				BE	Ū)	d 4	d 5	p		ides	17	- N			Z
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO H	BTEX + MARE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F, Ci, NO ₃ , NO ₂ , FO4, SO4) 8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
4/23/13	1310	Soil	SC-1	MIOHKI	Meold	$-\dot{0}01$	X												
4/23/13				MUOH Kil	MeOH	-002	X												
		50.1		MEDHKIL	MiOH	-003	X												
4/23/13		50:1	SC-4	MEOH K. Hoz		-004	Ý												
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Date: $4 _{23 13}$	Time:	Relinquish	to Walt	Received by:	oult	Date Time													ć
	necessary.	samples subr	nitted to Hall Environmental may be sub	contracted to other a	coredited laborator	ies. This serves as notice of thi	s possi	ibility.	Any su	ib-con	tracted	lata w	il be ci	early no	tated c	n the a	inalytica	I report.	
					1							•							-



May 02, 2013

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

RE: COP San Juan 28-4 #27A

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

OrderNo.: 1304A79

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/26/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. 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.

Sincerely,

India

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1304A79

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/2/2013

CLIENT: Animas EnvironmentalClient Sample ID: SC-6Project:COP San Juan 28-4 #27ACollection Date: 4/25/2013 12:42:00 PMLab ID:1304A79-001Matrix: MEOH (SOIL)Received Date: 4/26/2013 10:00:00 AMAnalysesResultRL Qual UnitsDFDate Analyzed

<i>.</i>			~			v
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst: GSA
Diesel Range Organics (DRO)	1400	100		mg/Kg	10	4/26/2013 2:04:11 PM
Surr: DNOP	0	63-147	S	%REC	10	4/26/2013 2:04:11 PM
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	900	50		mg/Kg	10	4/26/2013 11:34:23 AM
Surr: BFB	763	80-120	S	%REC	10	4/26/2013 11:34:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.29	0.25		mg/Kg	10	4/26/2013 11:34:23 AM
Toluene	0.59	0.50		mg/Kg	10	4/26/2013 11:34:23 AM
Ethylbenzene	4.4	0.50		mg/Kg	10	4/26/2013 11:34:23 AM
Xylenes, Total	55	1.0		mg/Kg	10	4/26/2013 11:34:23 AM
Surr: 4-Bromofluorobenzene	146	80-120	S	%REC	10	4/26/2013 11:34:23 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1304A79

02-May-13

Client: Project:		nvironmen Juan 28-4									
Sample ID	MB-7181	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	PBS	Batch	ID: 71	81	F	RunNo: 1	0141				
Prep Date:	4/26/2013	Analysis Da	ate: 4 /	26/2013	ę	SeqNo: 2	89038	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Drganics (DRO)	ND	10					<u> </u>			
Surr: DNOP		12		10.00		121	63	147			
Sample ID	LCS-7181	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	LCSS	Batch	ID: 71	81	F	RunNo: 1	0141				
Prep Date:	4/26/2013	Analysis Da	ate: 4/	26/2013	S	SeqNo: 2	89039	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	57	10	50.00	0	113	47.4	122			
Surr: DNOP		6.2		5.000		124	63	147			
Sample ID	MB-7211	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	PBS	Batch	ID: 72	11	F	RunNo: 1	0208				
Prep Date:	4/29/2013	Analysis Da	ate: 4/	/30/2013	S	SeqNo: 2	91165	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.6		10.00		95.8	63	147			
Sample ID	LCS-7211	SampTy	vpe: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Drganics	
Client ID:	LCSS	Batch	ID: 72	11	F	RunNo: 1	0208				
Prep Date:	4/29/2013	Analysis Da	ate: 4/	/30/2013	S	SeqNo: 2	91166	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.8		5.000		96.1	63	147			
Sample ID	1304A59-001AMS	SampTy	pe: MS	S	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 71	81	F	RunNo: 1	0208				
Prep Date:	4/26/2013	Analysis Da	ate: 4/	/30/2013	5	SeqNo: 2	91811	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	33	10	50.00	11.40	42.9	12.6	148			
Surr: DNOP		3.3		5.000		65.9	63	147	•		
Sample ID	1304A59-001AMS	D SampTy	pe: M	SD	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 71	81	F	RunNo: 1	0208				
Prep Date:	4/26/2013	Analysis Da	ate: 4/	/30/2013	5	SeqNo: 2	91812	Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Drganics (DRO)	33	10	50.00	11.40	42.9	12.6	148	0.0122	22.5	
Surr: DNOP		3.3		5.000		65.3	63	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Page 2 of 4

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Environmental an Juan 28-4 #27A		
Sample ID MB-7161	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS	Batch ID: R10142	RunNo: 10142	
Prep Date: 4/25/2013	Analysis Date: 4/26/2013	SeqNo: 289240 Units: mg/Kg	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	920 1000	92.3 80 120	
Sample ID LCS-7161	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range	
Client ID: LCSS	Batch ID: R10142	RunNo: 10142	
Prep Date: 4/25/2013	Analysis Date: 4/26/2013	SeaNo: 289241 Units: ma/Ka	

Prep Date: 4/25/2013	Analysis D	ate: 4/	26/2013	5	SeqNo: 2	89241	Units: mg/K	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	62.6	136				
Surr: BFB	960		1000		96.3	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- J Analyte detected below quantitation limits
- Р Sample pH greater than 2
- RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S

Page 3 of 4

WO#: 1304A79

02-May-13

QC SUMMARY REPORT

-

Hall Environmental Analysis Laboratory, Inc.

	s Environme an Juan 28-4									
Sample ID MB-7161	SampT	ype: ME	3LK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: R1	0142	F	RunNo: 1	0142				
Prep Date: 4/25/2013	Analysis E	Date: 4/	26/2013	S	SeqNo: 2	89267	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	1.1		1.000		107	80	120			
Sample ID LCS-7161	Samp1	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: R1	0142	F	RunNo: 1	0142				
Prep Date: 4/25/2013	Analysis E	Date: 4/	26/2013	5	SeqNo: 2	89268	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Kylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 4 of 4

WO#: 1304A79

02-May-13

		NTAL
<u>و</u> **	ANALYSIS	Y
		-

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number	: 1304A79		RcptNo: 1	
Received by/dat		04/20/13)			•
Logged By:	Ashley Gallegos	4/26/2013 10:00:00 Al	М	AJ		
Completed By:	Ashley Gallegos	4/26/2013 10:20:27 A	м	AZ		
Reviewed By:	ZÓ	04/26/2003	3			1 : :
<u>Chain of Cus</u>	stody					
1. Custody sea	als intact on sample bottles'	?	Yes	No	Not Present	
2. Is Chain of (Custody complete?		Yes 🖌	No	Not Present	
3. How was the	e sample delivered?		<u>Courier</u>			
<u>Log In</u>						
4. Was an atte	empt made to cool the sam	ples?	Yes 🔽	No	NA	
5. Were all sa	mples received at a temper	ature of >0° C to 6.0°C	Yes 🗸	No	NA	
6. Sample(s) i	in proper container(s)?		Yes 🖌	No]		
7. Sufficient sa	ample volume for indicated	test(s)?	Yes 🖌	No		
8. Are sample:	s (except VOA and ONG) p	roperly preserved?	Yes 🖌	No 📋		
9. Was preser	vative added to bottles?		Yes	No 🔽	NA	
10.VOA vials h	ave zero headspace?		Yes	No	No VOA Vials 🖌	
11 Were any s	ample containers received	broken?	Yes	No 🖌	# of preserved	
	work match bottle labels? epancies on chain of custoo	lv)	Yes 🖌	No	bottles checked for pH:	inless noted)
	s correctly identified on Cha		Yes 🗸	No	Adjusted?	
14. Is it clear w	hat analyses were requeste	ed?	Yes 🔽	No		
	Iding times able to be met? y customer for authorization		Yes 🗸	No	Checked by:	

Special Handling (if applicable)

16.v	Vas client notified of all d	liscrepancies with this order?	Yes	No	NA 🔽
	Person Notified:		Date:	<u>n an an</u>	·
1	By Whom:	a an	Via: eMail Pl	none Fax I	
	Regarding:		and a summer of a summer of the summer summer summer summer successions and successions and successions and su		un grupp an
	Client Instructions:	an a			ann a na h-ann ann an ann ann ann ann ann ann ann

17. Additional remarks:

18. Cooler Information

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

Page 1 of 1

onani-or-ouslouy Necolu			Turn-Around	Time:							ra s							,		۰.	
Client			onmental Services	□ Standard	⊠ Rush	Seme Day													NTA TO		•
		• • • • • • •		Project Name				2.4				v.hai									
Mailing	Address	624	E. Comanche	Cof San	Juan 28	-4 #27A			490	1 Haw								109			
			07401	Project #:	000000					505-				aquo ax 5	-						
	•	- 564-												-							
email or				Project Mana	iger:	·····			1 10 10 10	125-125-1						5 7 7 5 6	2 - 11		101234-243		2010/20
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	(Type)			Sample Tem	perature:				ВП	<u>9</u>	l b	0	etal	Ž	cide	(A	Ϋ́				کر «
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		ej.	BTEX + MTEP+ THES (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MES) TPH (Method 418 1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
4/25/13	1242	Soil	5C-6	MOHKIH Joz	MOH	-00	7	X		<u>-</u>											
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4/25/13	1714	Hear	the M. Wasz	/ hrunte	e blacks.	11 1	14	l I	ai 63.	Bill	to (onc		hil	lip-	2					
Date:	Time:	Relinquish		Received by:	1	Date Time															
15/13	1750	Mis	tublete 2	KD	× 04/0	26/13 1a	\mathcal{O}														
	f necessary,	samples sub	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratori	es. This serves as noti	ce of this	possibi	ility. A	ny sub-c	ontracte	d data	will be	clearly	y nota	ted on	the ar	nalytical	report		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

May 02, 2013

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

RE: COP San Juan 28-4 # 27A

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

OrderNo.: 1304B57

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. 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.

Sincerely,

Andia

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1304B57 Date Reported: 5/2/2013

CLIENT:	Animas Environmental			C	lient Sample	ID: SC-7			
Project:	COP San Juan 28-4 # 27A				Collection D	ate: 4/29/2	013 2:05:00 PM		
Lab ID: 1304B57-001		Matrix: MEOH (SOIL) Receive			Received D	ed Date: 4/30/2013 9:55:00 AM			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed		
EPA MET	HOD 8015D: DIESEL RANGE	ORGANICS				· · · · · · · · · · · · · · · · · · ·	Analyst: GSA		
Diesel R	ange Organics (DRO)	1100	100		mg/Kg	10	4/30/2013 2:25:06 PM		
Surr: [DNOP	176	63-147	S	%REC	10	4/30/2013 2:25:06 PM		
EPA MET	HOD 8015D: GASOLINE RAN	IGE					Analyst: NSB		
Gasoline	Range Organics (GRO)	350	100		mg/Kg	20	4/30/2013 11:34:16 AM		
Surr: E	3FB	229	80-120	S	%REC	20	4/30/2013 11:34:16 AM		
EPA MET	HOD 8021B: VOLATILES						Analyst: NSB		

Benzene	ND	0.50	mg/Kg	20	4/30/2013 11:34:16 AM
Toluene	2.4	1.0	mg/Kg	20	4/30/2013 11:34:16 AM
Ethylbenzene	1.3	1.0	mg/Kg	20	4/30/2013 11:34:16 AM
Xylenes, Total	20	2.0	mg/Kg	20	4/30/2013 11:34:16 AM
Surr: 4-Bromofluorobenzene	113	80-120	%REC	20	4/30/2013 11:34:16 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits J

Р Sample pH greater than 2

RL **Reporting Detection Limit**

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1304B57

02-May-13

	as Environmental								
Project: COP	San Juan 28-4 # 27	'A							
Sample ID MB-7211	SampType:	MBLK	Test	Code: EP	A Method	8015D: Dies	el Range C	Organics	
Client ID: PBS	Batch ID:	7211	R	RunNo: 10	208				
Prep Date: 4/29/2013	Analysis Date:	4/30/2013	S	SeqNo: 29	1165	Units: mg/#	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Surr: DNOP	9.6	10.00		95.8	63	147			
Sample ID LCS-7211	SampType:	LCS	Test	tCode: EP	A Method	8015D: Dies	el Range C	Drganics	
Client ID: LCSS	Batch ID:	7211	R	RunNo: 10	208				
Prep Date: 4/29/2013	Analysis Date:	4/30/2013	S	SeqNo: 29	1166	Units: mg/M	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10 50.00	0	97.9	47.4	122			
Surr: DNOP	4.8	5.000		96.1	63	147			
Sample ID 1304B05-001A	MS SampType:	MS	Tes	tCode: EP	A Method	8015D: Dies	el Range C	Drganics	
Client ID: BatchQC	Batch ID:	7211	R	RunNo: 10	223				
Prep Date: 4/29/2013	Analysis Date:	4/30/2013	S	SeqNo: 29	1657	Units: mg/H	٢ġ		
Analyte	Result PQ	L SPK value	SPK Ref Val	. %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	74	10 50.40	12.21	123	12.6	148			
Surr: DNOP	7.5	5.040		148	63	147			S
Sample ID 1304B05-001A	AMSD SampType:	MSD	Tes	tCode: EP	'A Method	8015D: Dies	el Range G	Drganics	
Client ID: BatchQC	Batch ID:	7211	F	RunNo: 10	223				
Prep Date: 4/29/2013	Analysis Date:	5/1/2013	S	SeqNo: 29	1658	Units: mg/k	٢g		
Analyte	Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	10 50.25	12.21	112	12.6	148	7.96	22.5	
Surr: DNOP	. 6.8	5.025		135	63	147	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
 - S Spike Recovery outside accepted recovery limits

Page 2 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

	Environmen n Juan 28-4									
Sample ID MB-7205	SampTy	pe: M	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch	ID: R	10203	F	RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis Da	ate: 4	/30/2013	S	SeqNo: 2	91428	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0	1							
Surr: BFB	910		1000		91.2	80	120			
Sample ID LCS-7205	SampTy	/pe: LO	CS	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: R	10203	Я	RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis Da	ate: 4	/30/2013	S	SeqNo: 2	91429	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.5	62.6	136			
Surr: BFB	990		1000		99.3	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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WO#: **1304B57** *02-May-13*

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Animas Environmental

Client:

Project: COP S	an Juan 28-4	# 27A								
Sample ID MB-7205	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: R1	0203	F	RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis E	Date: 4/	30/2013	S	SeqNo: 2	91470	Units: mg/k	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	1.0		1.000		102	80	120			
Sample ID LCS-7205	SampT	Гуре: LC	:s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: R1	0203	F	RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis D	Date: 4/	30/2013	S	SeqNo: 2	91471	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
ryionoo, rotui	0.1	0.10	0.000	0		00				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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WO#: 1304B57

02-May-13

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	ental Analysis Labora 4901 Hawkins Albuquerque, NM 87 -3975 FAX: 505-345-4 vw.hallenvironmental	s NE 7105 Sam j 410:	NE Sample Log-In Check					
Client Name: Animas Environmental	Work Order Nun	nber: 1304B57		RcptNo:	1				
Received by/date:	01/30/13	`	,						
Logged By: Lindsay Mangin	4/30/2013 9:55:00	AM	Andythings						
Completed By: Lindsay Mangin	4/30/2013 10:01:3	7 AM	June of the start						
Reviewed By: TO	04/36/20	913							
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 samp	les?	Yes 🗹	No 🗌	na 🗀					
5. Were all samples received at a tempera	ture 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 te	est(s)?	Yes 🗹	No 🗌						
8. Are samples (except VOA and ONG) pro	pperly 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 b	roken?	Yes	No 🗹	# of preserved bottles checked					
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗌	for pH:	>12 unless noted)				
13. Are matrices correctly identified on Chai		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:					
Our extent the adding of the state to									
<u>Special Handling (if applicable)</u>			. –						
16. Was client notified of all discrepancies w	/itn this order?	Yes 🗌		NA 🗹	1				
Person Notified: By Whom:	Da Via	were the set of the se	Phone 🗌 Fax	In Person	,				

17. Additional remarks:

Regarding: Client Instructions:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By	
1	2.5	Good	Yes			· · ·	

Client: A	tnimas				Turn-Around Time:																
		Environm	ental Services	□ Standard \ Rush_Same_day				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com													
				Project Name:																	
Mailing Address: 6.24 E Comarche Farmington, NM 87401 Phone #: (505) 564 - 2281 email or Fax#: (505) 324 - 2022				CoP San Juan 28-4 #27A Project #: Project Manager:				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107													
								Analysis Requesti													
								QA/QC Package:				Deborah Watson				e ts (8021)	TPH (Gas on	ŝĝ / MRO)			SIMS)
				Sampler: Stephanie Lynn					HH	Ğ,	,		20 8	Ş.	082						,
NELAP Other				On Ice: ZYes, S D No					+	(ER) (DR)	t18.	204	r 82	ی م آ	s / 8		(A				٥۲
EDD (Type)				Sample Temperature 2:5					MTBE	ଞ୍ଚି	po	bo		N'N	cide	F	ابِ ا			1	کر ۳
Date	Time	Matrix	Sample Request ID		Preservative Type	12∂¥	++++++ EN© 8572-*	BTEX + ME	BTEX + MI	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
4/29/13	1405	501]	56-7	Kut 40 T	MCOT	-00	$\overline{\mathbf{D}}$	X		X											Ē.
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Date:	Time:	Relinquished by:		Received by: Date Time				Remarks: Bru to CourcoPhillips													
29/13	1450	flight	anie Alym	Charten hallen 4/29/13 1450 Received by pate Time 04/30/15 0955				1	0: 6			10 (JNG	COT N	nety	n					
Date:	Time: 1720	Relinquishe	the Walters																	ļ	