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.

					ana re	, INIVI 075	05					
			Rele	ease Notific	cation	and Co	orrective	Actio	n			
						OPERA	ΓOR		🔲 Initia	al Report	\boxtimes	Final Repo
Subsidiary	of Conoc	oPhillips Co	mpany	, a Wholly Ow	ned	Contact Ashley Maxwell						
Address 3401 East 30 th St, Farmington, NM					· ·	Telephone 1	No.(505) 324-	5169				
						Facility Typ	e: Gas Well					
Surface Owner Federal Mineral Owner					Owner F	Federal API No. 3003923896 SF 079491				896		
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter P	Section 12	Township 27N	Range 5W	Feet from the 840'	North/	South Line South	Feet from the 790 '	e East/	West Line East	County Rio Arrib	oa	
Type of Rele	Pase Pro	duced Fluids		_		2 Longitude OF REL		4 yds ³	Volume I	Recovered	264	yds ³
Source of Re		known Produ		ipment		Date and Hour of Occurrence Date and Hour of Disc 7/16/2012 7/16/2012						
Was Immedi	ate Notice (]Yes [] No 🖾 Not R	equired	If YES, To Whom?					12	
By Whom?						Date and I-	Iour			OTL CON	s ni	U
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse. DIST. 3						
lf a Waterco N/A	urse was Im	pacted, Desci	ribe Fully.'	k		L						
Discovery o Describe Are	f historical ea Affected	em and Reme hydrocarbor and Cleanup	n impacted Action Tal	l soil. cen.*			0.11					
		1		cen.* Guidelines for Re	emediati	ion of Leaks	. Snills and Re	leases. T	he excavati	on was 20'>	X25'X1	5' and

Excavation was required based on NMOCD Guidelines for Remediation of Leaks, Spills and Releases. The excavation was 20'X25'X15' and 264 yds³ of soil was transported to a third party land farm. Excavation and confirmation sampling occurred. Analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is needed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

	OIL CONSERVATION	DIVISION
Signature:		1101/11
Printed Name: Ashley Maxwell	Approved by Environmental Specialist	What Kelly
Title: Field Environmental Specialist	Approval Date: 1/23/2013 Expiration	Date:
E-mail Address: ashley.p.wethington@conocophillips.com	Conditions of Approval:	Attached
Date: December 27, 2012 Phone: 505-324-5169		
* Attach Additional Sheets If Necessary	nJK 1302330775	



Animas Environmental Services. LLC

www.animasenvironmental.com

December 21, 2012

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

> Durango, Colorado 970-403-3084

Ashley Maxwell ConocoPhillips San Juan Business Unit Office 216-2 5525 Hwy 64 Farmington, New Mexico 87401

RE: Surface Depression Assessment and Final Excavation Report San Juan 27-5 #102M Río Arriba County, New Mexico

Dear Ms. Maxwell:

On May 24 and July 18, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 27-5 #102M, located in Rio Arriba County, New Mexico. A historical release was encountered within the extents of a surface depression at the location. The initial release assessment was completed by AES on May 24, 2012. The final excavation was completed by CoP contractors while AES was on location on July 18, 2012.

1.0 Site Information

1.1 Location

Site Name – San Juan 27-5 #102M Legal Description – SE¼ SE¼, Section 12, T27N, R5W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.58249 and W107.30324, respectively Surface Depression Latitude/Longitude – N36.58247 and W107.30354, respectively Land Jurisdiction - Private Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, May 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report from March 1996 for the San Juan 27-5 #102M reported the depth to groundwater beneath the location as 160 feet below

Ashley Maxwell San Juan 27-5 #102M Surface Depression Assessment and Final Excavation Report December 21, 2012 Page 2 of 8

ground surface (bgs). The New Mexico 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. A livestock pond is located approximately 160 feet northeast of the location and drains south-southeast to Carrizo Canyon . The site location has been assigned a ranking score of 20 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Assessments

AES was initially contacted by Ashley Maxwell, CoP representative, on May 23, 2012 to complete an assessment of a surface depression at the location. On May 24, 2012, Deborah Watson and Zachary Trujillo of AES mobilized to the location. While on location, based on visual observations and field screening results, AES determined that petroleum impacted soils were located within the area of the surface depression. Therefore, AES proceeded with release assessment field work on the same day. The assessment included collection and field screening of 20 soil samples from five test holes (TH-1 through TH-5) collected within the surface depression. Test holes were terminated on sandstone, with the exception of TH-3. Based on the field screening results and laboratory analytical results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On July 18, 2012, 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. Sample SC-6 was a composite of SC-1 through SC-5. The final excavation was approximately 21 feet by 22 feet by 16 feet deep. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 20 soil samples and 6 composite samples were collected during the assessments. All soil samples were field screened for volatile organic compounds

Ashley Maxwell San Juan 27-5 #102M Surface Depression Assessment and Final Excavation Report December 21, 2012 Page 3 of 8

(VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Five of the soil samples collected during the initial assessment (TH-1 through TH-5) and six composite soil samples (SC-1 through SC-6) were submitted for laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photoionization 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.

2.1.3 Chlorides

Soil sample SC-6 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The 11 soil samples (TH-1 through TH-5 and SC-1 through SC-6) collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples TH-1 through TH-5 and SC-5 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B;

Note that soil samples SC-1 through SC-5 were analyzed for TPH as GRO/DRO per USEPA Method 8015B, and SC-6 was analyzed for BTEX per USEPA Method 8021B and for chloride per USEPA Method 300.0.

Ashley Maxwell San Juan 27-5 #102M Surface Depression Assessment and Final Excavation Report December 21, 2012 Page 4 of 8

2.3 Field and Laboratory Analytical Results

On May 24, 2012, initial assessment field screening results for VOCs via OVM reported concentrations ranging from 7.6 ppm in TH-5 up to 4,912 ppm in TH-1. On July 18, 2012, final excavation field screening results for VOCs via OVM ranged from 7.8 ppm in SC-4 up to 59.0 ppm in SC-2. Field TPH concentrations ranged from 132 mg/kg in SC-1 up to 238 mg/kg in SC-2. Field screening results are summarized in Table 1 and presented on Figures 3 and 4. The AES field screening reports are attached.

May and July 2012 VOCs Field Field Sample Sample Date Sample OVM TPH Chlorides Depth ID Sampled Location Reading (ft bgs) (mg/kg) (mg/kg) (ppm) NMOCD Action Level* 100 250 100 0.5 11.1 NA NA 1 2,360 NA NA 2 3,603 NA NA TH-1 5/24/12 Center 3 4,342 NA NA 5 4,912 NA NA 6 3,828 NA NA 0.5 NA 56.7 NA 2 TH-2 5/24/12 Southeast 31.0 NA NA 4 31.0 NA NA 0.5 23.7 NA NA 2 19.1 NA NA TH-3 5/24/12 Northeast 4 13.8 NA NA 7 16.4 NA NA 0.5 11.8 NA NA 2 TH-4 5/24/12 Southwest 9.2 NA NA 4 10.5 NA NA 0.5 8.7 NA NA TH-5 5/24/12 Northwest 2 7.6 NA NA

Table 1. Field Screening VOCs, TPH, and Chloride Results San Juan 27-5 #102M Surface Depression Assessment and Final Excavation

Sample ID	Date Sampled	' Denth		VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)	
				100	100	250	
			4	8.3	NA	NA	
		-	6	63.8	NA	NA	
SC-1	7/18/12	Northwest Wall	1 to 16	10.1	132	NA	
SC-2	7/18/12	Southeast Wall	1 to 16	59.0	238	NA	
SC-3	7/18/12	Northeast Wall	1 to 16	8.8	140	NA	
SC-4	7/18/12	Southwest Wall	1 to 16	7.8	145	NA	
SC-5	7/18/12	Base	16	10.0	140	NA	
SC-6	7/18/12	Surface Depression Composite	1 to 16	46.1	NA	220	

NA - Not Analyzed

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

During the May 2012 assessment, laboratory analytical results for TH-1 through TH-5 reported benzene concentrations below laboratory detection limits. Total BTEX concentrations ranged from less than 0.25 mg/kg up to 80.4 mg/kg in TH-1. TPH concentrations as GRO/DRO were reported below laboratory detection limits for all samples, except TH-1 with reported concentrations of 710 mg/kg GRO and 520 mg/kg DRO.

In July 2012, laboratory analytical results from SC-1 through SC-5 were used to confirm field screening results during excavation activities. Benzene and total BTEX concentrations were reported below laboratory detection limits in SC-5 and SC-6. TPH concentrations as GRO/DRO were reported below laboratory detection limits in all samples, except SC-2 with 32 mg/kg GRO. The chloride concentration in SC-6 was reported below the laboratory detection limit of 30 mg/kg. Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

Ashley Maxwell San Juan 27-5 #102M Surface Depression[®]Assessment and Final Excavation Report December 21, 2012 Page 6 of 8

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chloride (mg/kg)
	NMOCD Action Level*		0.2/10	50	1	00	250
TH-1	5/24/12	6	<2.5	80.4	710	520	NA
TH-2	5/24/12	4	<0.050	<0.25	<5.0	<10	NA
TH-3	5/24/12	7	<0.050	<0.25	<5.0	<9.8	NA
TH-4	5/24/12	4	<0.050	<0.25	<5.0	<10	NA
TH-5	5/24/12	6	<0.050	<0.25	<5.0	<9.7	NA
SC-1	7/18/12	1 to 16	NA	NA	<5.0	<10	NA
SC-2	7/18/12	1 to 16	NA	NA	32	<10	NA
SC-3	7/18/12	1 to 16	NA	NA	<5.0	<9.9	NA
SC-4	7/18/12	1 to 16	NA	NA	<5.0	<9.8	NA
SC-5	7/18/12	16	<0.050	<0.25	<5.0	<9.9	NA
SC-6	7/18/12	1 to 16	<0.12	<1.12	NA	NA	<30
N1.A	Alah Asalısad						

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chloride San Juan 27-5 #102M Surface Depression Assessment and Final Excavation May and July 2012

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 May 24, 2012, AES conducted an initial release assessment of petroleum contaminated soils following determination of a historical release located within the extents of a surface depression identified at the San Juan 27-5 #102M. 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 ranking score of 20. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in TH-1, with the highest concentration (4,912 mg/kg) being reported at 5 feet bgs. Laboratory analytical results showed that benzene concentrations were below laboratory detection limits, but that total BTEX concentrations were reported above the NMOCD action level of 50 mg/kg in TH-1 with 80.4 mg/kg. TPH concentrations (as

Ashley Maxwell San Juan 27-5 #102M Surface Depression Assessment and Final Excavation Report December 21, 2012 Page 7 of 8

GRO/DRO) were also above the NMOCD action level within TH-1 (1,230 mg/kg). Based on field screening and laboratory analytical results, excavation of the release area was recommended.

On July 18, 2012, confirmation sampling of the final excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below the NMOCD action level of 100 ppm in all samples. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in all samples, with the highest concentration of 238 mg/kg reported in SC-2. However, laboratory analytical results showed reported TPH concentrations (as GRO/DRO) below the NMOCD action level of 100 mg/kg in all samples.

NMOCD action levels for pit closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13C. Analytical results for SC-5 and SC-6, surface depression composite samples, showed that reported benzene and total BTEX concentrations were below applicable NMOCD action levels. Sample SC-5 had a reported TPH concentration below the applicable NMOCD action level, and the chloride concentration in SC-6 was reported below the NMOCD action level of 250 mg/kg.

Based on final field screening and laboratory analytical results of the final excavation of petroleum contaminated soils at the San Juan 27-5 #102M, benzene, total BTEX, VOCs, TPH, and chloride concentrations were below applicable NMOCD action levels. 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,

Aleather M. Woods

Heather M. Woods Staff Geologist

Ashley Maxwell San Juan 27-5 #102M Surface Depression Assessment and Final Excavation Report December 21, 2012 Page 8 of 8 .

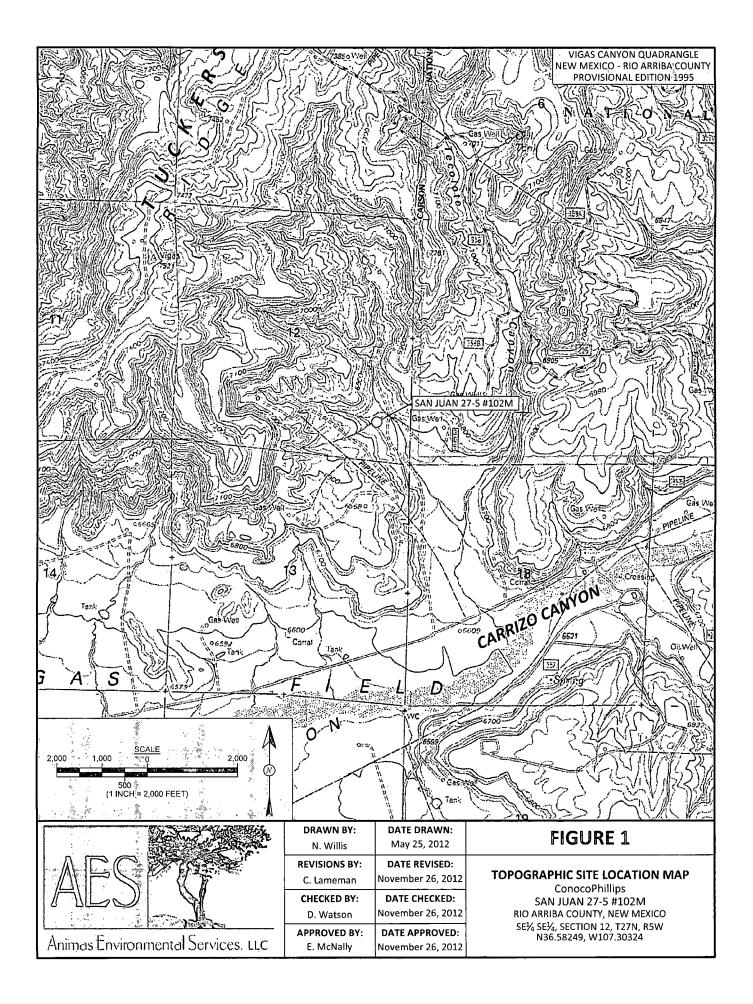
Elizabet V Mindly

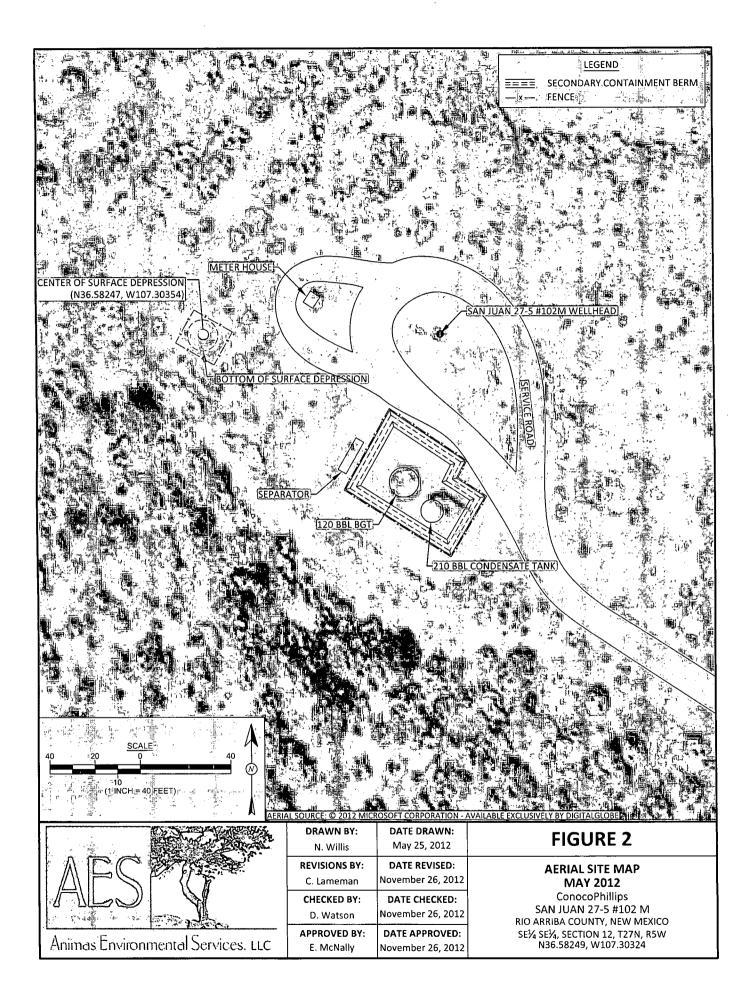
Elizabeth McNally, P.E.

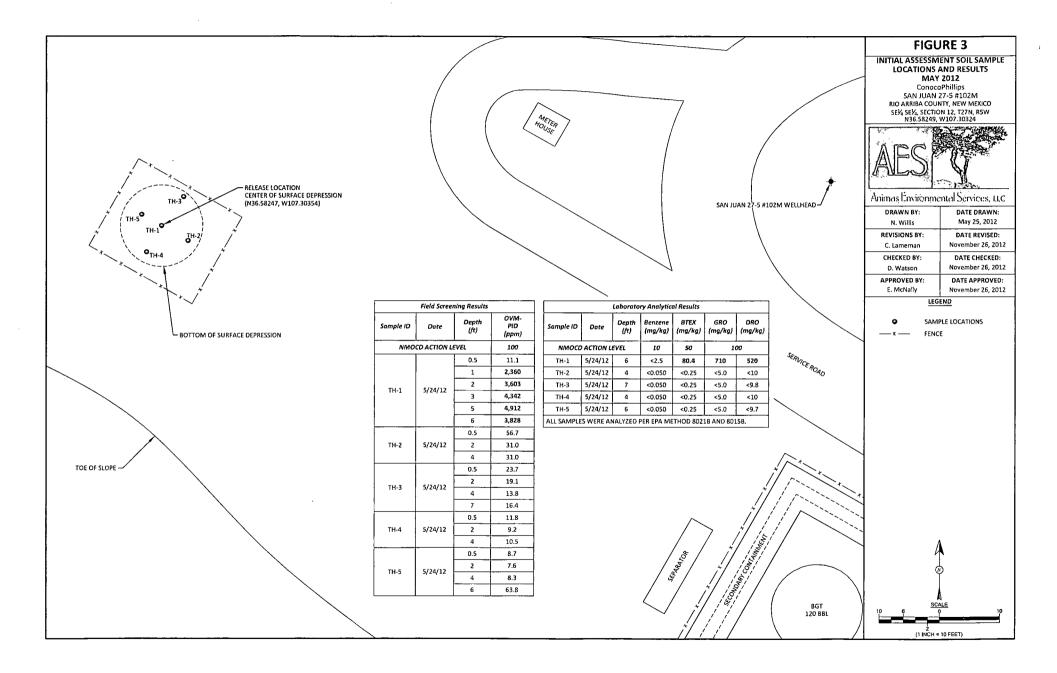
Attachments:

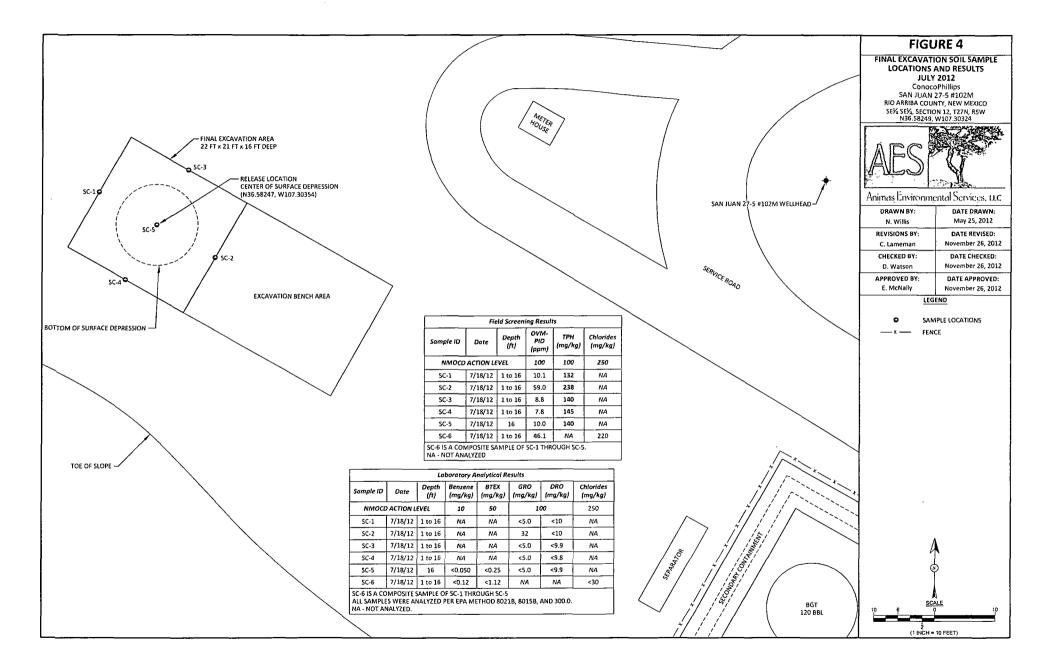
Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, May 2012 Figure 3. Initial Assessment Soil Sample Locations and Results, May 2012 Figure 4. Final Excavation Soil Sample Locations and Results, July 2012 AES Field Screening Report 052412 AES Field Screening Report 071812 Hall Analytical Report 1205A96 Hall Analytical Report 1207802

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AES Field Screening Report



Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: San Juan 27-5 #102M

Date: 5/24/2012

Matrix: Soil

www.animasenvironmental.com

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

Durango, Colorado 970-403-3274

Т

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1 @ 0.5'	5/24/2012	14:37	11.1	14:59	Not analyzed for TPH.			
TH-1 @1'	5/24/2012	14:41	2,360	14:59		Not analyze	d for TPH	1.
TH-1 @ 2'	5/24/2012	14:46	3,603	15:02	Not analyzed for TPH.			
TH-1 @ 3'	5/24/2012	14:51	4,342	15:04	Not analyzed for TPH.			
TH-1 @ 5'	5/24/2012	15:03	4,912	15:16	Not analyzed for TPH.			
TH-1 @ 6'	5/24/2012	15:13	3,828	15:37	Not analyzed for TPH.			
TH-2 @ 0.5'	5/24/2012	15:21	56.7	15:37		Not analyze	d for TPH	1.
TH-2 @ 2'	5/24/2012	15:23	31.0	15:38		Not analyze	d for TPH	ł.
TH-2 @ 4'	5/24/2012	15:30	31.0	15:42	Not analyzed for TPH.			Ι.
TH-3 @ 0.5'	5/24/2012	15:41	23.7	15:54	Not analyzed for TPH.			
TH-3 @ 2'	5/24/2012	15:45	19.1	16:08	Not analyzed for TPH.			
TH-3 @ 4'	5/24/2012	15:48	13.8	16:09	Not analyzed for TPH.			

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-3 @ 7'	5/24/2012	16:03	16.4	16:15	Not analyzed for TPH.			
TH-4 @ 0.5'	5/24/2012	16:11	11.8	16:22	Not analyzed for TPH.			
TH-4 @ 2'	5/24/2012	16:14	9.2	16:30	Not analyzed for TPH.			
TH-4 @ 4'	5/24/2012	16:18	10.5	16:31	Not analyzed for TPH.			
TH-5 @ 0.5'	5/24/2012	16:26	8.7	16:42	Not analyzed for TPH.			
TH-5 @ 2'	5/24/2012	16:30	7.6	16:43	Not analyzed for TPH.			
TH-5 @ 4'	5/24/2012	16:34	8.3	16:46	Not analyzed for TPH.			
TH-5 @ 6'	5/24/2012	16:41	63.8	16:51	Not analyzed for TPH.			

Total Petroleum Hydrocarbons - USEPA 418.1

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

*Field TPH concentrations recorded may be below PQL.

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Analyst:

Debrah Water

San Juan 27-5 #102M Page 2 Report Finalized: 05/24/12

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AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 27-5 #102M

Date: 7/18/2012

Matrix: Soil



Animas Environmental Services. LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
			Northwest							
SC-1	7/18/2012	10:10	Wall	10.1	NA NA	10:56	132	20.0	1	HMW
			Southeast							
SC-2	7/18/2012	9:54	Wall	59.0	NA	11:00	238	20.0	1	HMW
			Northeast							
SC-3	7/18/2012	9:50	Wall	8.8	NA	11:04	140	20.0	1	HMW
			Southwest							
SC-4	7/18/2012	10:00	Wall	7.8	NA	11:08	145	20.0	1	HMW
SC-5	7/18/2012	9:45	Base	10.0	NA	11:13	140	20.0	1	HMW
SC-6	7/18/2012	10:13	Composite	46.1	220	Not Analyzed for TPH.				

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.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Aleather M. Woods Analyst:



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

May 30, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-1776 FAX (505) 324-2022

RE: COP SJ 27-5 #102M

OrderNo.: 1205A96

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/26/2012 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.

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

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

		<u> </u>		Dat	e Reported: 5/50/2012					
CLIENT: Animas Environmental Serv Project: COP SJ 27-5 #102M	vices		Client Sample		ID: TH-1@6' ate: 5/24/2012 3:13:00 PM					
Lab ID: 1205A96-001	Matrix:	MEOH (SOIL) Received Date: 5/26/2012								
Analyses	Result	RL (Qual Units	DF	Date Analyzed					
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP					
Diesel Range Organics (DRO)	520	9.7	mg/Kg	1	5/29/2012 11:02:23 AM					
Surr: DNOP	109	82.1-121	%REC	1	5/29/2012 11:02:23 AM					
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB					
Gasoline Range Organics (GRO)	710	500	mg/Kg	100	5/29/2012 2:42:56 PM					
Surr: BFB	94.8	69.7-121	%REC	100	5/29/2012 2:42:56 PM					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	2.5	mg/Kg	100	5/29/2012 2:42:56 PM					
Toluene	3.8	2.5	mg/Kg	100	5/29/2012 2:42:56 PM					
Ethylbenzene	2.6	2.5	mg/Kg	100	5/29/2012 2:42:56 PM					
Xylenes, Total	74	10	mg/Kg	100	5/29/2012 2:42:56 PM					
Surr: 4-Bromofluorobenzene	87.7	80-120	%REC	100	5/29/2012 2:42:56 PM					

Qualifiers:	*/X	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		Page 1 c

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

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Analytical Report Lab Order 1205A96

Date Reported: 5/30/2012

Hall Environmental Analysis	all Environmental Analysis Laboratory, Inc.										
CLIENT: Animas Environmental Services Project: COP SJ 27-5 #102M Lab ID: 1205A96-002		MEOH (SC	(ient Sample Collection D Received D	ate: 5/24/2	012 3:30:00 PM					
Analyses	Result	RL (Qual	Units	DF	Date Analyzed					
EPA METHOD 8015B: DIESEL RANGE O	RGANICS					Analyst: JMP					
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/29/2012 11:24:09 AM					
Surr: DNOP	105	82.1-121		%REC	1	5/29/2012 11:24:09 AM					
EPA METHOD 8015B: GASOLINE RANG	E					Analyst: NSB					
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/29/2012 12:39:45 PM					
Surr: BFB	101	69.7-121		%REC	1	5/29/2012 12:39:45 PM					
EPA METHOD 8021B: VOLATILES						Analyst: NSB					
Benzene	ND	0.050		mg/Kg	1	5/29/2012 12:39:45 PM					
Toluene	ND	0.050		mg/Kg	1	5/29/2012 12:39:45 PM					
Ethylbenzene	ND	0.050		mg/Kg	1	5/29/2012 12:39:45 PM					
Xylenes, Total	NĎ	0.10		mg/Kg	1	5/29/2012 12:39:45 PM					
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	5/29/2012 12:39:45 PM					

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

Page 2 of 5

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Analytical Report

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Analytical Report							
Lab Order 1205A96							
Date Reported: 5/30/2012							

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Animas Environmental Services
 Client Sample ID: TH-3 @7'

 Project:
 COP SJ 27-5 #102M
 Collection Date: 5/24/2012 4:03:00 PM

 Lab ID:
 1205A96-003
 Matrix:
 MEOH (SOIL)
 Received Date: 5/26/2012

Analyses	Result	RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/29/2012 11:45:46 AM	
Surr: DNOP	107	82.1-121	%REC	1	5/29/2012 11:45:46 AM	
EPA METHOD 8015B: GASOLINE RA				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2012 1:10:32 PM	
Surr: BFB	90.3	69.7-121	%REC	1	5/29/2012 1:10:32 PM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.050	mg/Kg	່ 1	5/29/2012 1:10:32 PM	
Toluene	ND	0.050	mg/Kg	1	5/29/2012 1:10:32 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2012 1:10:32 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	5/29/2012 1:10:32 PM	
Surr: 4-Bromofluorobenzene	94.3	80-120	%REC	1	5/29/2012 1:10:32 PM	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

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Hall Environmental Analysis	Labora	atory, Ir	ıc.			Order 1205A96 te Reported: 5/30/2012
CLIENT: Animas Environmental Services Project: COP SJ 27-5 #102M Lab ID: 1205A96-004	-	MEOH (S		Client Sample Collection D Received D	ate: 5/24/2	012 4:18:00 PM
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE C	RGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/29/2012 12:17:40 PM
Surr: DNOP	107	82.1-121		%REC	1	5/29/2012 12:17:40 PM
EPA METHOD 8015B: GASOLINE RANG	ε					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/29/2012 1:41:18 PM
Surr: BFB	73.6	69.7-121		%REC	1	5/29/2012 1:41:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	5/29/2012 1:41:18 PM
Toluene	ND	0.050		mg/Kg	1	5/29/2012 1:41:18 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/29/2012 1:41:18 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/29/2012 1:41:18 PM
Surr: 4-Bromofluorobenzene	77.6	80-120	S	%REC	1	5/29/2012 1:41:18 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- $B \quad \ \ Analyte \ detected \ in \ the \ associated \ Method \ Blank$

Analytical Report

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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Analytical Report

Lab Order 1205A96

Date Reported: 5/30/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Project: COP SJ 27-5 #102M

Client Sample ID: TH-5 @6' Collection Date: 5/24/2012 4:41:00 PM

Lab ID: 1205A96-005

Matrix: MEOH (SOIL) Received Date: 5/26/2012

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/29/2012 12:39:25 PM
Surr: DNOP	108	82.1-121	%REC	1	5/29/2012 12:39:25 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2012 2:12:00 PM
Surr: BFB	104	69.7-121	%REC	1	5/29/2012 2:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/29/2012 2:12:00 PM
Toluene	ND	0.050	mg/Kg	1	5/29/2012 2:12:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2012 2:12:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/29/2012 2:12:00 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	5/29/2012 2:12:00 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

Client: Animas Environmental Services **Project:** COP SJ 27-5 #102M

Sample ID	MB-2116	SampTyp	e: M	BLK	Test	Code: El	PA Method	8015B: Diese	l Range C	Organics	
Client ID:	PBS	Batch II): 21	16	R	unNo: 3	051				
Prep Date:	5/25/2012	Analysis Dat	e: 5	/29/2012	s	eqNo: 8	4484	Units: %REC	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		111	82.1	121			
Sample ID	LCS-2116	SampTyp	e: LC	cs	Test	Code: El	PA Method	8015B: Diese	l Range C	Organics	
Client ID:	LCSS	Batch I	D: 21	16	R	unNo: 3	051				
Prep Date:	5/25/2012	Analysis Dat	e: 5	/29/2012	S	eqNo: 8	4500	Units: %REC	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7		5.000		94.3	82.1	121			
Sample ID	MB-2112	SampTyp	e: M	BLK	Test	Code: E	PA Method	8015B: Diese	l Range C	Drganics	
Client ID:	PBS	Batch I	D: 21	12	R	unNo: 3	051		•		
Prep Date:	5/25/2012	Analysis Dat	e: 5	/29/2012	S	eqNo: 8	4501	Units: %RE	2		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		109	82.1	121			
Sample ID	LCS-2112	SampTyp	e: L(CS	Tes	Code: E	PA Method	8015B: Diese	I Range C	Organics	
Client ID:	LCSS	Batch I	D: 2 1	12	F	unNo: 3	051				•
Prep Date:	5/25/2012	Analysis Dat	e: 5	/29/2012	S	eqNo: 8	4655	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	•	4.8		5.000		96.4	82.1	121			
Sample ID	1205A10-001AMS	SampTyp	e:M	s	Tes	tCode: E	PA Method	8015B: Diese	l Range C	Organics	
Client ID:	BatchQC	Batch I	D: 21	112	F	lunNo: 3	051				
Prep Date:	5/25/2012	Analysis Dat	e: 5	/29/2012	S	eqNo: 8	4661	Units: %RE	0		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.6		4.878		94.2	82.1	121			
Sample ID	1205A10-001AMS	D SampTy	be: M	SD	Tes	tCode: E	PA Method	8015B: Diese	el Range (Organics	
Client ID:	BatchQC	Batch I	D: 2'	112	F	RunNo: 3	051				
Prep Date:	5/25/2012	Analysis Dat	e: 5	/29/2012	8	SeqNo: 8	4744	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.8		4.854		98.5	82.1	121	0	0	
Sample ID	MB-2129	SampTy	be: M	BLK	Tes	tCode: E	PA Method	8015B: Diese	el Range (Organics	
Client ID:	PBS	Batch I	D: 2 ′	129	F	RunNo: 3	051				
Prep Date:	5/29/2012	Analysis Dat	te: 5	6/29/2012	S	SeqNo: 8	4746	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	ND	10								

Qualifiers:

J

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits R RPD 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

Reporting Detection Limit RL

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WO#:

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	Environmental Services 27-5 #102M	
Sample ID MB-2129	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: PBS	Batch ID: 2129	RunNo: 3051
Prep Date: 5/29/2012	Analysis Date: 5/29/2012	SeqNo: 84746 Units: mg/Kg
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.0	0 105 82.1 121
Sample ID LCS-2129	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: LCSS	Batch ID: 2129	RunNo: 3051
Prep Date: 5/29/2012	Analysis Date: 5/29/2012	SeqNo: 84867 Units: mg/Kg
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	38 10 50.0	
Surr: DNOP	4.6 5.00	0 91.2 82.1 121
Sample ID 1205A59-001AMS	S SampType: MS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: BatchQC	Batch ID: 2116	RunNo: 3064
Prep Date: 5/25/2012	Analysis Date: 5/29/2012	SeqNo: 85124 Units: %REC
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.5 5.00	5 90.2 82.1 121
Sample ID 1205A59-001AMS	SD SampType: MSD	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: BatchQC	Batch ID: 2116	RunNo: 3064
Prep Date: 5/25/2012	Analysis Date: 5/29/2012	SeqNo: 85125 Units: %REC
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.3 5.02	5 105 82.1 121 0 0
Sample ID MB-2136	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: PBS	Batch ID: 2136	RunNo: 3082
Prep Date: 5/29/2012	Analysis Date: 5/30/2012	SeqNo: 85154 Units: %REC
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.0	0 106 82.1 121
Sample ID LCS-2136	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: LCSS	Batch ID: 2136	RunNo: 3082
Prep Date: 5/29/2012	Analysis Date: 5/30/2012	SeqNo: 85155 Units: %REC
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.00	0 91.9 82.1 121
Sample ID 1205A68-001AMS	S SampType: MS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: BatchQC	Batch ID: 2136	RunNo: 3082
Prep Date: 5/29/2012	Analysis Date: 5/30/2012	SeqNo: 85232 Units: %REC
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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1205A96

WO#:

30-May-12

Hall Environmental Analysis Laboratory, Inc.

Client: Animas Environmental Services **Project:**

COP SJ 27-5 #102M

Sample ID	1205A68-001AMS	SampTy	pe: M	s	Tes	tCode: El	PA Method	8015B: Diesel	Range (Drganics	
Client ID:	BatchQC	Batch	ID: 21	36	F	RunNo: 3	082				
Prep Date:	5/29/2012	Analysis Da	ite: 5/	/30/2012	S	SeqNo: 8	5232	Units: %REC			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7		4.912		96.7	82.1	121			
Sample ID	1205A68-001AMSI	D SampTy	pe: M	SD	Tes	tCode: El	PA Method	8015B: Diesel	Range (Drganics	
Client ID:	BatchQC	Batch	ID: 21	36	F	RunNo: 3	082				-
Glient ID.						· · · · · · ·					
Prep Date:	5/29/2012	Analysis Da		/30/2012	S	SeqNo: 8		Units: %REC			
	5/29/2012			-	SPK Ref Val	SeqNo: 8 %REC		Units: %REC HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

- Value above quantitation range Е
- Analyte detected below quantitation limits J R RPD 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
- **Reporting Detection Limit** RL

WO#: 1205A96

30-May-12



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		, .	4-1.0								
Client: Project:		2nvironmen 27-5 #102N		vices							
riojeci.	=	.7-5 #1021									
Sample ID	5ML RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: R3	077	F	RunNo: 3	077				
Prep Date:		Analysis D	ate: 5/	29/2012	5	SeqNo: 8	5210	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	ND 1,000	5.0	4 000		101	co 7	404			
Surr: BFB		1,000		1,000	·····	101	69.7	121			
Sample ID	2.5UG GRO LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015B: Gasc	line Rang	e	
Client ID:	LCSS	Batch	ID: R3	077	F	RunNo: 3	077				
Prep Date:		Analysis D	ate: 5/	29/2012	S	SeqNo: 8	5213	Units: mg/K	(g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	28	5.0	25.00	0	112	98.5	133			
SUIT: BFB		820		1,000		82.4	69.7	121			
Sample ID	1205A96-002AMS	SampT	ype: MS	6	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID:	TH-2 @4'	Batch	ID: R3	077	F	RunNo: 3	077				
Prep Date:		Analysis D	ate: 5/	29/2012	5	SeqNo: 8	5223	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	ge Organics (GRO)	21	5.0	18.61	0	113	85.4	147			
Surr: BFB		640		744.3		86.1	69.7	121			
Sample ID	1205A96-002AMS	D SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID:	TH-2 @4'	Batch	ID: R3	077	F	RunNo: 3	077				
Prep Date:		Analysis D	ate: 5/	29/2012	9	SeqNo: 8	5224	Units: mg/M	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	ge Organics (GRO)	21	5.0	18.61	0	112	85.4	147	0.284	19.2	
Surr: BFB		770		744.3	···· ·	103	69.7	121	0	0	
Sample ID	MB-2115	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 21	15	F	RunNo: 3	077				
Prep Date:	5/25/2012	Analysis D	ate: 5/	29/2012	S	SeqNo: 8	5231	Units: %RE	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1,000		1,000		99.6	69.7	121			
Sample ID	LCS-2115	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 21	15	F	RunNo: 3	077				
Prep Date:	5/25/2012	Analysis D	ate: 5/	29/2012	5	SeqNo: 8	5234	Units: %RE	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		890		1,000		89.3	69.7	121			

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits J

R RPD 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

RL Reporting Detection Limit

1205A96 30-May-12

WO#:

Hall Environmental Analysis Laboratory, Inc.

Client: Animas Environmental Services

Project:

COP SJ 27-5 #102M

Sample ID	MB-2115	SampT	ype: MB	BLK	Test	Code: EF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	ID: 211	15	R	unNo: 30)77				
Prep Date:	5/25/2012	Analysis D	ate: 5 /2	29/2012	s	eqNo: 8	5330	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-Brom	ofluorobenzene	1.1		1.000		109	80	120			
Sample ID	LCS-2115	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batch	ID: 21	15	F	RunNo: 30	77				
Prep Date:	5/25/2012	Analysis D	ate: 5/	29/2012	S	SeqNo: 8	5331	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.050	1.000	0	102	83.3	107			
Toluene		0.97	0.050	1.000	0	96.9	74.3	115			
Ethylbenzene		1.0	0.050	1.000	0	102	80.9	122			
Xylenes, Total		3.1	0.10	3.000	0	105	85.2	123			
Surr: 4-Brom	nofluorobenzene	0.90		1.000		90.3	80	120			
Sample ID	1205A67-001AMS	S SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batch	n ID: 21	15	F	Run'No: 3	077				
Prep Date:	5/25/2012	Analysis D	ate: 5/	29/2012	S	SeqNo: 8	5341	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.048	0.9643	0	97.7	67.2	113			
Toluene		0.88	0.048	0.9643	0	91.6	62.1	116			
Ethylbenzene		0.93	0.048	0.9643	0	96.3	67.9	127			
•		0.93 2.9	0.048 0.096	0.9643 2.893	0 0	96.3 99.0	67.9 60.6	127 134			
Xylenes, Total	nofluorobenzene										
Xylenes, Total Surr: 4-Brom		2.9 0.86		2.893 0.9643	0	99.0 89.6	60.6 80	134	tiles		
Xylenes, Total Surr: 4-Brom	nofluorobenzene	2.9 0.86 SD SampT	0.096	2.893 0.9643 SD	0 Tes	99.0 89.6	60.6 80 PA Method	134 120	tiles		
Xylenes, Total Surr: 4-Brom Sample ID	nofluorobenzene 1205A67-001AM BatchQC	2.9 0.86 SD SampT	0.096 Type: Mt n ID: 21	2.893 0.9643 SD 15	0 Tes	99.0 89.6 tCode: E	60.6 80 PA Method 077	134 120			
Xylenes, Total Surr: 4-Brom Sample ID Client ID:	nofluorobenzene 1205A67-001AM BatchQC	2.9 0.86 SD SampT Batcl	0.096 Type: Mt n ID: 21	2.893 0.9643 SD 15 /29/2012	0 Tes	99.0 89.6 ttCode: E RunNo: 3 SeqNo: 8	60.6 80 PA Method 077	134 120 8021B: Vola		RPDLimit	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date:	nofluorobenzene 1205A67-001AM BatchQC	2.9 0.86 SD SampT Batcl Analysis D	0.096 Type: M: n ID: 21 Date: 5/	2.893 0.9643 SD 15 /29/2012	0 Tes F	99.0 89.6 ttCode: E RunNo: 3 SeqNo: 8	60.6 80 PA Method 077 5342	134 120 8021B: Vola Units: mg/ł	<g< td=""><td>14.3</td><td>Qual</td></g<>	14.3	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	nofluorobenzene 1205A67-001AM BatchQC	2.9 0.86 SD SampT Batcl Analysis D Result	0.096 Type: M n ID: 21 Date: 5 / PQL	2.893 0.9643 SD 15 /29/2012 SPK value	0 Tes F SPK Ref Val	99.0 89.6 ttCode: E RunNo: 3 SeqNo: 8 %REC	60.6 80 PA Method 077 5342 LowLimit	134 120 8021B: Vola Units: mg/ł HighLimit	≺g %RPD		Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	nofluorobenzene 1205A67-001AM BatchQC	2.9 0.86 SD SampT Batcl Analysis D Result 0.94	0.096 Type: MS n ID: 21 Date: 5/ PQL 0.047	2.893 0.9643 SD 15 /29/2012 SPK value 0.9390	0 Tes SPK Ref Val 0	99.0 89.6 ttCode: E RunNo: 3 SeqNo: 8 %REC 99.9	60.6 80 PA Method 077 5342 LowLimit 67.2	134 120 8021B: Vola Units: mg/ł HighLimit 113	<g< b=""> <u>%RPD</u> 0.417</g<>	14.3	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	nofluorobenzene 1205A67-001AM BatchQC 5/25/2012	2.9 0.86 SD SampT Batcl Analysis D Result 0.94 0.87	0.096 ype: M: n ID: 21 Date: 5, PQL 0.047 0.047	2.893 0.9643 SD 15 /29/2012 SPK value 0.9390 0.9390	0 Tes SPK Ref Val 0 0	99.0 89.6 ttCode: E RunNo: 3 SeqNo: 8 <u>%REC</u> 99.9 93.1	60.6 80 PA Method 077 5342 LowLimit 67.2 62.1	134 120 8021B: Vola Units: mg/J HighLimit 113 116	<g< b=""> %RPD 0.417 1.11</g<>	14.3 15.9	Qual

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation rangeJ Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

30-May-12

WO#:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental	Work Order Number: 1205A96
Received by/date: AF DS126/12.	
/ Logged By: Andy Freeman 5/26/2012	ander
Completed By: Anne Thorne 5/29/2012	and the
Reviewed By: AT/MG (5/29/12	
Chain of Custody	
1. Were seals intact?	Yes 🗌 No 🗔 🛛 Not Present 🗹
2. Is Chain of Custody complete?	Yes 🗹 No 🗌 Not Present
3. How was the sample delivered?	Courier
Log In	
4. Coolers are present? (see 19. for cooler specific information)	Yes 🗹 No 🗋 🛛 NA 🗌
5. Was an attempt made to cool the samples?	Yes 🗹 No 🗌 🛛 NA 🗌
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹 No 🗌 🛛 NA 🗌
7. Sample(s) in proper container(s)?	Yes 🗹 No 🗆
8. Sufficient sample volume for indicated test(s)?	Yes 🗹 No 🗌
9. Are samples (except VOA and ONG) properly preserved?	Yes 🗹 No 🗌
10. Was preservative added to bottles?	Yes 🗌 No 🗹 🛛 NA 🗌
11. VOA viais have zero headspace?	Yes 🗌 No 🗌 No VOA Vials 🗹
12. Were any sample containers received broken?	Yes No 🗹
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes V No + of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes ☑ No □ (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes 🗹 No 🗌 Adjusted?
16. Were all holding times able to be met?	Yes 🗹 No 🗌
(If no, notify customer for authorization.)	Checked by:
<u>Special Handling (if applicable)</u>	
17. Was client notified of all discrepancies with this order?	
Person Notified: Date	
By Whom: Via:	📋 eMail 🔄 Phone 🛄 Fax 🛄 In Person
Regarding:	
Client Instructions:	· · · · · · · · · · · ·

18. Additional remarks:

19. Cooler Information

ļ	Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
ľ	1	1.0	Good	Yes			

Page 1 of 1

Chain-of-Custody Record	Turn-Around] 🛛			ы		F	M	/TC	20		леі	NT.	N I
Client: Animas Environmental	□ Standard		n Sameday												TO	
Services UC	Project Name	a: //						w.ha								
Mailing Address: 624 E Comanche	TCOP S.I	27-5	<u>* Sameday</u> #102M		490	1 Ha	wkins							109		
- Formington NM 87401	Project #:	•	····				5-345-			-	-		-4107		:	
Phone #: 505 564 2281	1						3			ysis			-			
email or Fax#:	Project Mana	ger:			(ylu	Sel)				04)						
	R. Ken	nemer		s (8021)	as o	Pier le				04,S	PCB's					
Standard Level 4 (Full Validation) Accreditation					<u>()</u> Н	<u>S</u>				02, P	82 F					
□ NELAP □ Other	Sampler: D		<u>~ じ No *** ないの</u>		4 4	158	18.1) 04 1)	H (H		3°N	/ 80		Â			L N
⊡ EDD (Type)	Sample Tem	erature			Ш	98 P	2 Q	P P	etals	N.	ides	F	0 2			
Date Time Matrix Sample Request ID	Container Type and #	Preservative Type	HEADNO' AS	BTEX + N	BTEX + MTBE + TPH (Gas only)	TPH Metho	TPH (Method 418.1) EDB (Method 504.1)	8310 (PNA or PAH)	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)
5-24-12 1513 Soil TH-L@6'	1-402- 1-MOHKI+	hon	1205A96-1	X		X							Ì			
1530 TH-2@4'	1	1	-2	X		X										
1603 TH-3@7'			-3	X		γ										
1618 TH-4@41				X		χŢ						·				
- 1641 - TH-586'		4	5	X		X						:				
					_							1				
												·				
								L				:				
																$\downarrow \downarrow$
Date: Time: Relinquished by: 5/25/12 1147 Debrh With Date: Time: Relinquished by: 5/25/12 1237 Mustur Walta	Received by: Received by:	Weete	Date	WO Area	.903 : 25	22£	l to 71 Billy				•		: MK ed by	spe :Asl	NC NCY.	М.

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: www.hallenvironmental.com

July 23, 2012

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

RE: COP SJ 27-5 #102M

OrderNo.: 1207802

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/19/2012 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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall En	ivironmental Analysis	Labora	atory, In	<u>c.</u>		Lab	lytical Report Order 1207802 Reported: 7/23/2012
CLIENT:	Animas Environmental Services			C	lient Sample	e ID: SC-1	
Project:	COP SJ 27-5 #102M				Collection I	Date: 7/18/20	12 10:10:00 AM
Lab ID:	1207802-001	Matrix:	SOIL		Received I	Date: 7/19/20	12 10:15:00 AM
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
EPA MET	HOD 8015B: DIESEL RANGE O	RGANICS				· · · · · ·	Analyst: JMP
Diesel Ra	ange Organics (DRO)	ND	10		mg/Kg	1	7/19/2012 11:40:31 AM
Surr: D	NOP	108	77.6-140		%REC	1	7/19/2012 11:40:31 AM
EPA MET	HOD 8015B: GASOLINE RANG	E					Analyst: NSB
Gasoline	Range Organics (GRO)	ND	5.0		mg/Kg	1	7/19/2012 12:39:15 PM
Surr: E	SEB	100	69.7-121		%REC	1	7/19/2012 12:39:15 PM

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

U Samples with CalcVal < MDL

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Analytical Report
Lab Order 1207802
Date Reported: 7/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID: SC-2** COP SJ 27-5 #102M Collection Date: 7/18/2012 9:54:00 AM **Project:** 1207802-002 Lab ID: Matrix: SOIL Received Date: 7/19/2012 10:15:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015B: DIESEL RANGE ORGANICS** Analyst: JMP Diesel Range Organics (DRO) ND 10 mg/Kg 1 7/19/2012 12:06:05 PM Surr: DNOP 110 77.6-140 %REC 7/19/2012 12:06:05 PM 1

oun. Divor	110	17.0 140		701120		1110/2012 12:00:001 14
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	32	5.0		mg/Kg	1	7/19/2012 1:08:00 PM
Surr: BFB	227	69.7-121	s	%REC	1	7/19/2012 1:08:00 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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
- RL Reporting Detection Limit

U Samples with CalcVal < MDL

Page 2 of 10

Hall Environ	nental Analysis		Lab Order 1207802 Date Reported: 7/23/2012						
	Environmental Service: 27-5 #102M	S			imple ID: SC-3 ion Date: 7/18/2	012 9:50:00 AM			
Lab ID: 1207802	-003	Matrix:	SOIL	Receiv	Received Date: 7/19/2012 10:15:00 AM				
Analyses		Result	RL	Qual Units	DF	Date Analyzed			
EPA METHOD 801	5B: DIESEL RANGE C	RGANICS				Analyst: JMP			
Diesel Range Orgar	nics (DRO)	ND	9.9	mg/Kg	1	7/19/2012 12:03:26 PM			
Surr: DNOP		106	77.6-140	%REC	1	7/19/2012 12:03:26 PM			
EPA METHOD 801	5B: GASOLINE RANG	ε				Analyst: NSB			
Gasoline Range Org	anics (GRO)	ND	5.0	mg/Kg	1	7/19/2012 1:36:43 PM			
Surr: BFB		115	69.7-121	%REC	1	7/19/2012 1:36:43 PM			

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

Analytical Report

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

U Samples with CalcVal < MDL

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Analytical	Report
Lab Order 1	207802
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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/23/2012

CLIENT: Animas Environmental Services **Project:** COP SJ 27-5 #102M

1207802-004

Lab ID:

Client Sample ID: SC-4 Collection Date: 7/18/2012 10:00:00 AM Received Date: 7/19/2012 10:15:00 AM

Analyses	Result	RL Qual Units		DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/19/2012 11:41:26 AM
Surr: DNOP	106	77.6-140	%REC	1	7/19/2012 11:41:26 AM
EPA METHOD 8015B: GASOLINE R		Analyst: NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/19/2012 2:05:35 PM
Surr: BFB	108	69.7-121	%REC	1	7/19/2012 2:05:35 PM

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

RPD outside accepted recovery limits R

- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

U Samples with CalcVal < MDL Page 4 of 10

Hall Environmental Analys	is Labora	tory, In	c		te Reported: 7/23/2012
CLIENT: Animas Environmental Servic Project: COP SJ 27-5 #102M Lab ID: 1207802-005	matrix:	SOIL	Collection		012 9:45:00 AM 012 10:15:00 AM
Analyses	Result	RL	Qual Units	` DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/19/2012 12:25:18 PM
Surr: DNOP	109	77.6-140	%REC	1	7/19/2012 12:25:18 PM
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/19/2012 2:34:24 PM
Surr: BFB	113	69.7-121	%REC	1	7/19/2012 2:34:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	7/19/2012 2:34:24 PM
Toluene	ND	0.050	mg/Kg	1	7/19/2012 2:34:24 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/19/2012 2:34:24 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/19/2012 2:34:24 PM
Surr: 4-Bromofluorobenzene	111	80-120	%REC	1	7/19/2012 2:34:24 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

Analytical Report Lab Order 1207802

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

U Samples with CalcVat < MDL

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Analytical Report Lab Order 1207802 Date Reported: 7/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project:COP SJ 27-5 #102MLab ID:1207802-006

Client Sample ID: SC-6

Collection Date: 7/18/2012 10:13:00 AM

Received Date: 7/19/2012 10:15:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed		
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.12	mg/Kg	5	7/19/2012 3:03:16 PM	
Toluene	ND	0.25	mg/Kg	5	7/19/2012 3:03:16 PM	
Ethylbenzene	ND	0.25	mg/Kg	5	7/19/2012 3:03:16 PM	
Xylenes, Total	ND	0.50	mg/Kg	5	7/19/2012 3:03:16 PM	
Surr: 4-Bromofluorobenzene	111	80-120	%REC	5	7/19/2012 3:03:16 PM	
EPA METHOD 300.0: ANIONS					Analyst: BRM	
Chloride	ND	30	mg/Kg	20	7/19/2012 12:28:24 PM	

Matrix: SOIL

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

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Hall	Environm	ental A	nalysis	Labora	itory,	Inc.

Client: Animas Environmental Services

Project:	COP SJ 27-5 #102M
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Sample ID	MB-2907	SampType: MBLK TestCode: EPA Method 3						300.0: Anion	s		
Client ID:	PBS	Batch	ID: 29	07	R	unNo: 4	157				
Prep Date:	7/19/2012	Analysis D	ate: 7/	19/2012	S	ieqNo: 1	18814	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5		·						
Sample ID	LCS-2907	SampT	ype: LC	S	Test	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 29	07	R	tunNo: 4	157				
Prep Date:	7/19/2012	Analysis D	ate: 7/	19/2012	S	SeqNo: 1	18815	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	98.3	90	110			
Sample ID	1207599-001AMS	SampT	ype: MS	}	Tes	tCode: El	PA Method	300.0: Anion	s		
Sample ID Client ID:	1207599-001AMS BatchQC		ype: MS			tCode: El RunNo: 4		300.0: Anion	S		
	BatchQC		iD: 29	07	F		157	300.0: Anion Units: mg/K	-		
Client ID:	BatchQC	Batch	iD: 29	07 19/2012	F	RunNo: 4 SeqNo: 1	157		-	RPDLimit	Qual
Client ID: Prep Date:	BatchQC	Batch Analysis D	a ID: 29 ate: 7 /	07 19/2012	F	RunNo: 4 SeqNo: 1	157 18819	Units: mg/K	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride	BatchQC	Batch Analysis D Result 15	a ID: 29 ate: 7/	07 19/2012 SPK value 15.00	F SPK Ref Val 2.511	RunNo: 4 SeqNo: 1 <u>%REC</u> 81.1	157 18819 LowLimit 64.4	Units: mg/K HighLimit	sg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride	BatchQC 7/19/2012	Batch Analysis D Result 15 D SampT	n ID: 29 nate: 7/ PQL 7.5	07 19/2012 SPK value 15.00	F SPK Ref Val 2.511 Tes	RunNo: 4 SeqNo: 1 <u>%REC</u> 81.1	157 18819 LowLimit 64.4 PA Method	Units: mg/K HighLimit 117	sg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride Sample ID	BatchQC 7/19/2012 1207599-001AMS BatchQC	Batch Analysis D Result 15 D SampT	PQL 7.5 79 7.5 7.5 79pe: MS 1D: 29	07 19/2012 SPK value 15.00 SD 07	F SPK Ref Val 2.511 Tes F	RunNo: 4 SeqNo: 1 <u>%REC</u> 81.1 tCode: El	157 18819 LowLimit 64.4 PA Method 157	Units: mg/K HighLimit 117	śg %RPD s	RPDLimit	Qual
Client ID: Prep Date: Analyte Chloride Sample ID Client ID:	BatchQC 7/19/2012 1207599-001AMS BatchQC	Batch Analysis D Result 15 D SampT Batch	PQL 7.5 79 7.5 7.5 79pe: MS 1D: 29	07 19/2012 SPK value 15.00 SD 07 19/2012	F SPK Ref Val 2.511 Tes F	RunNo: 4 SeqNo: 1 %REC 81.1 tCode: El RunNo: 4 SeqNo: 1	157 18819 LowLimit 64.4 PA Method 157	Units: mg/K HighLimit 117 300.0: Anion	śg %RPD s	RPDLimit	Qual

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits R

- RPD outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit Page 7 of 10

1207802 23-Jul-12

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Animas E	Environmei	ntal Ser	vices							
Project:	COP SJ 2	27-5 #102N	M								
Sample ID	MB-2911	Tes	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID:	PBS	Batch	n ID: 29	11	F	RunNo: 4	133				
Prep Date:	7/19/2012	Analysis D	ate: 7/	19/2012	S	SeqNo: 1	18627	Units: mg/l	≺g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		114	77.6	140			
Sample ID	LCS-2911	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	LCSS	Batch	n ID: 29	11	F	RunNo: 4	133				
Prep Date:	7/19/2012	Analysis D	ate: 7/	19/2012	S	SeqNo: 1	18783	Units: mg/l	<g< td=""><td></td><td></td></g<>		
Analyte	ан -	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	45	10	50.00	0	90.1	52.6	130			
Surr: DNOP	· · · · · · · · · · · · · · · · · · ·	4.6		5.000		91.0	77.6	140			
Sample ID	1207748-001CMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	n ID: 29	11	RunNo: 4172						
Prep Date:	7/19/2012	Analysis D	ate: 7/	20/2012 SeqNo: 120061			Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	69	9.8	49.21	33.03	73.8	57.2	146			
Surr: DNOP		4.7		4.921		95.0	77.6	140			
Sample ID	1207748-001CMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Dies	el Range C	Drganics	
Client ID:	BatchQC	Batch	n ID: 29	11	R	RunNo: 4	172				
Prep Date:	7/19/2012	Analysis D	ate: 7/	20/2012	SeqNo: 120062 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range I	Organics (DRO)	75	10	50.15	33.03	83.6	57.2	146	7.81	24.5	
Dicoci i Kungo	organios (Brito)	15	10	50.15	55.05	00.0	01.2	140	7.01	24.0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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1207802

WO#:

23-Jul-12

Hall	Envi	ronmen	tal A	naly	sis L	abora	tory,	Inc.

WO#: 1207802

23-Jul-12

Client: Project:		nvironmen 7-5 #102№		vices									
Sample ID	MB-2878	TestCode: EPA Method 8015B: Gasoline Range											
Client ID:	PBS	Batch	ID: 28	78	R	unNo: 4	160						
Prep Date:	7/18/2012	Analysis Da	ate: 7/	19/2012	SeqNo: 119360			Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Surr: BFB	e Organics (GRO)	ND 1000	5.0	1000		103	69.7	121					
Sample ID LCS-2878 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range													
Client ID:	LCSS	Batch	ID: 28	78	R	RunNo: 4	160						
Prep Date:	7/18/2012	Analysis D	ate: 7/	19/2012	S	SeqNo: 1	19361	Units: mg/K	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Sasoline Rang	e Organics (GRO)	25	5.0	25.00	0	101	85	115					
Surr: BFB		1100		1000		109	69.7	121					
Sample ID	1207548-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8015B: Gasoline Range								
Client ID:	BatchQC	Batch	ID: 28	78	RunNo: 4160								
Prep Date:	7/18/2012	Analysis D	ate: 7/	19/2012	S	SeqNo: 1	19368	Units: mg/M	ζg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Jasoline Rang	e Organics (GRO)	23	4.7	23.39	0	98.5	85.4	147					
Surr: BFB		990		935.5		106	69.7	121					
Sample ID 1207548-001AMSD SampType: MSD TestCode: EPA Method 8015B: Gasoline Range													
Sample ID		•			RunNo: 4160								
•	BatchQC	•	i ID: 28		F	RunNo: 4	160						
Client ID:		•	ID: 28	78		RunNo: 4 SeqNo: 1		Units: mg/ł	٢g				
Client ID:	BatchQC	Batch	ID: 28	78 19/2012		SeqNo: 1		Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual		
Client ID: Prep Date: Analyte	BatchQC	Batch Analysis D	i ID: 28 ate: 7/	78 19/2012	S	SeqNo: 1	19369	•	•	RPDLimit 19.2 0	Qual		

Qualifiers:

J

*/X Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
 - Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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Hall E	nvironmental	Analysis	Laborator	y, Inc.
				,,

WO#: 1207802

23-Jul-12

Client: Project:		nvironmenta 7-5 #102M	l Services								
Sample ID	MB-2878	SampType	e: MBLK	Test	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID): 2878	R	unNo: 4160						
Prep Date:	7/18/2012	Analysis Date	: 7/19/2012	S	eqNo: 119432	1	Units: %REC	•			
Analyte		Result F	PQL SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Brom	nofluorobenzene	1.1	1.000		113	80	120				
Sample ID	D LCS-2878 SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID:	LCSS	Batch ID): 2878	R	unNo: 4160						
Prep Date:	7/18/2012	Analysis Date	e: 7/19/2012	S	ieqNo: 119433		Units: %RE	2			
Analyte		Result F	PQL SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Brom	nofluorobenzene	1.2	1.000		119	80	120				
Sample ID	1207624-001AMS	SampType	e: MS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	BatchQC	Batch ID): 2878	R	lunNo: 4160						
Pron Dato:											
Frep Date.	7/18/2012	Analysis Date	e: 7/19/2012	s	eqNo: 119488	;	Units: %RE	C			
Analyte	7/18/2012	-		S SPK Ref Val	•	: Límit	Units: % RE (%RPD	RPDLimit	Qual	
Analyte	7/18/2012	-			•				RPDLimit	Qual	
Analyte Surr: 4-Bron		Result F	PQL SPK value 0.9398	SPK Ref Val	%REC Low	Limit 80	HighLimit 120	%RPD	RPDLimit	Qual	
Analyte Surr: 4-Bron	nofluorobenzene	Result F	PQL SPK value 0.9398 e: MSD	SPK Ref Val	%REC Low 116	Limit 80	HighLimit 120	%RPD	RPDLimit	Qual	
Analyte Surr: 4-Bron Sample ID Client ID:	nofluorobenzene	Result F 1.1 D SampType Batch ID	PQL SPK value 0.9398 e: MSD	SPK Ref Val Test	%REC Low 116 tCode: EPA Me	Limit 80 ethod 8	HighLimit 120	%RPD iles	RPDLímit	Qual	
Analyte Surr: 4-Bron Sample ID Client ID:	nofluorobenzene 1207624-001AMSI BatchQC	Result F 1.1 D SampType Batch IE Analysis Date	PQL SPK value 0.9398 e: MSD D: 2878	SPK Ref Val Test R S	%REC Low 116	Limit 80 ethod 8	HighLimit 120 3021B: Volat	%RPD iles	RPDLimit	Qual	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

tau Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410', Website: www.hallenvironmental.con.

Sample Log-In Check List

Client Name: Animas Environmental	Work Order Number: 1207802
Received by/date:	
Logged By: Anne Thorne 7/19	12012 10:15:00 AM an Am
Completed By: Anne Thorne 7/19/	2012 Ann Hen
Reviewed By: 0?/19/12	
Chain of Custody	
1. Were seals intact?	Yes 🗹 No 🗌 Not Present 🗌
2. Is Chain of Custody complete?	Yes 🗹 No 🗔 Not Present 🗌
3. How was the sample delivered?	Courier
Log In	
4. Coolers are present? (see 19. for cooler specific	information) Yes 🗹 No 🗌 NA 🗌
5. Was an attempt made to cool the samples?	Yes 🗹 No 🗌 NA 🗌
6. Were all samples received at a temperature of >	•0° C to 6.0°C Yes ☑ No □ NA □
7. Sample(s) in proper container(s)?	Yes 🗹 No 🗌
8. Sufficient sample volume for indicated test(s)?	Yes 🗹 No 🗌
9. Are samples (except VOA and ONG) properly pro	eserved? Yes 🗹 No 🗌
10. Was preservative added to bottles?	Yes 🗌 No 🗹 🛛 NA 🗌
11. VOA vials have zero headspace?	Yes 🔲 No 🗌 No VOA Vials 🗹
12. Were any sample containers received broken?	Yes No 🗹
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes ☑ No □
14. Are matrices correctly identified on Chain of Cus	
15. Is it clear what analyses were requested?	Yes 🗹 No 🗌 Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹 No 🗋 Checked by:
Special Handling (if applicable)	
17. Was client notified of all discrepancies with this of	order? Yes 🗋 No 🗔 🛛 NA 🗹 .
Person Notified:	Date
By Whom:	Via: 💭 eMail 📋 Phone 📄 Fax 📄 In Person
Regarding:	
Client Instructions:	

18. Additional remarks:

19. Cooler Information

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

Client: Animas Environmental Services, LLC Mailing Address: 424 E. Comanche				Turn-Around Time: $A \leq AP - Anions$ \Box Standard $\not A$ Rush Same Day. Project Name: $C_0P \leq 5 \leq 27 - 5 \neq 102M$ Project #:				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.halienvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
Farmington, NM 87401 Phone #: 505-564-2281																					
				Project Mana	-		+ Ratta (8021)	+ TPH (Gas only)	by Diesel)						PCB's						
Accredi	tation AP		er	Sampler: He	ather Woo	ENO	÷.		3015B (G	418.1)	504.1)	PAH)	s,	NO ₃ ,NO ₂ ,	es / 8082		(YO				or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + ATTE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Meta	Anions (FCDNO3, NO2, PO4, SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Buthhles (Y or N)
7/18/12	1010	501	50-1	MEDHKit; 1 402 Jar	MEDH	-001			Х				_								T
7/10/12		501	5C-2	MOHKit; 1402 Jar	MEDH	-002			X												T
7/18/12		Soil	56-3	Mi DH Kit; 2 402 Jar	MEOH	-OB			X												T
7/18/12	1000	Soil	5C-4	NeOH Kit; 2 402 Jar	MeDH	-004			X												T
7/18/12		Soil	SC-5	MeOH Kit; 2 402 Jar	MeOH	-005	Х		Х												
7/18/12	1013	Soil	3C-6	MEOHKIH	MeOH	-000	X							X						_	
										_											
												_							+	+-	+
Date:		Relinguish Heat Relinguish	the M. Word	Received by: Date Time Remarks: B:11 to Conoco Phillips Westing, Walter 1/8/12 1622 Received by: Date Time Date Time Area: 25 Super: Kendal bassing ordered									A.	1 2	130	· .	HA.				

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