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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

1220 0: 50: 11011	cio Dr., ouin	110,111110750		Sa	anta Fe	e, NM 875	<u>05</u>									
			Rele	ease Notific	cation	and Co	rı	rective A	ction		1 111 40000 11 1 1 1 1 1 1 1 1 1					
					(OPERAT	O]	R	Ε] Initial	l Report	\boxtimes	Final Report			
Name of Co Subsidiary		-	-	a Wholly Own		Contact Ashley Maxwell										
Address 340				/402		Telephone No. 505-324-5169										
Facility Nar	ne Hardie	A 1B]	Facility Type Gas Well										
Surface Ow	ner Feder	al		Mineral C	Owner I	r Federal				API No. 3004531139 NMSF-078416						
LOCATION OF RELEASE																
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	F	eet from the	East/W	est Line		Coun	ty			
C	26	029N	008W	930'	l n	North 2160'				/est		San Juan				
			Latitude_	36.70126	5	_ Longitud	le	107.64	701							
	•					OF RELI										
Type of Relea	ase Produc	ced Water		INAI	UKE			lease 5 BBLs		Volume R	ecovered 3	3 5 RRI	c			
Source of Rel	-			r of Occurrence	e		Hour of Dis									
						Unknown				1/9/2013	@ 10:30					
Was Immedia	ite Notice (] Yes 🔲	No 🛛 Not R	equired	If YES, To Whom?										
By Whom?						Date and Hour RCVD JUL 26 '13										
Was a Watero	course Reac	ched?] Yes 🛚) No		If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3										
If a Watercou	rse was Im	pacted. Descr	ribe Fully *	1		I										
Describe Cau Flame arreste	se of Probler from the f	em and Reme Fire tube in a	edial Action water tank o				ing	the release of	5 BBLs	of produce	d water. Th	ie relea:	se remained			
				en.* ConocoPh												
were assesse this time.	ed and lal	oratory an	alytical r	esults were bel	low app	licable NM	.00	CD action le	vels. No	o further	remediat	ion is	required at			
I hereby certi regulations al public health should their o	I operators or the enviruperations homent. In a	are required tronment. The ave failed to dition, NMC	to report and acceptance acceptance acceptance acceptance accept accept	is true and comp d/or file certain r e of a C-141 repo investigate and re tance of a C-141	elease no ort by the emediate	otifications are NMOCD made contamination	nd p arke on t	perform corrected as "Final Rethat pose a three	ive action eport" do eat to gro	ons for rele ses not relic ound water,	ases which eve the ope , surface wa	may er rator of ater, hu	ndanger `liability man health			
	Isl	Eff in	•			OIL CONSERVATION DIVISION										
Signature: Printed Name	: Lisa Hu	nter				Approved by Environmental Specialist: And Kully										
Title: Field E			it			Approval Date: 8/16/2013 Expiration Date:										
E-mail Addre	ss: Lisa.H	unter@cono	cophillips.	com	1	Conditions of Approval:						Attached				

Date: July 25, 2013 Phone
* Attach Additional Sheets If Necessary

Phone: 505-326-9786

NJK 13 228 39470

AES

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

April 17, 2013

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

RE: Produced Water Release Report

Hardie A 1B

San Juan County, New Mexico

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the five barrel (bbl) produced water release at the ConocoPhillips (CoP) Hardie A 1B, located in San Juan County, New Mexico.

1.0 Site Information

1.1 Location

Site Name – Hardie A 1B

Legal Description – NE¼ NW¼, Section 26, T29N, R8W, San Juan County, New Mexico Well Latitude/Longitude – N36.70129 and W107.64742, respectively Release Latitude/Longitude – N36.70119 and W107.64710, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report dated May 1991 for the Hardie A 211 well, located approximately 450 feet west-northwest of the release location, reported the depth to groundwater as 150 feet below 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 (http://ford.nmt.edu/react/project.html) 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 180 feet north of the location and eventually discharges to Jasis Canyon. Based on this information, the location was assessed a ranking score of 20 per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

1.3 Confirmation Sampling

AES was initially contacted by Ashley Maxwell, CoP representative, on January 15, 2013, and on March 6, 2013, Deborah Watson and Heather Woods of AES completed the field work. Confirmation sampling included the collection of one 5-point composite soil sample. Sample locations are shown on Figure 2.

2.0 Soil Sampling

On March 6, 2013, AES personnel collected one 5-point composite soil sample (SC-1) at approximately 0.25 feet bgs from around the produced water tank. Soil sample SC-1 was submitted for confirmation laboratory analysis.

2.1 Laboratory Analyses

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

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B; and
- Chloride per USEPA Method 300.0.

2.2 Laboratory Analytical Results

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.048 mg/kg and 0.24 mg/kg, respectively. TPH as GRO and DRO were

reported as less than 4.8 mg/kg and 10 mg/kg, respectively. The laboratory chloride concentration was reported at 81 mg/kg. Laboratory analytical results are summarized in Table 1 and included on Figure 2. The laboratory analytical report is attached.

Table 1. Soil Laboratory Analytical Results
Hardie A 1B Produced Water Release, March 2013

Sample ID	Date Sampled	Depth	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NM	OCD Action Level*		10	50	10	00*	
SC-1	3/6/13	0.25	<0.048	<0.24	<4.8	<10	81

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

3.0 Conclusions and Recommendations

On March 6, 2013, AES conducted confirmation sampling of a produced water release at the Hardie A 1B. Action levels for releases are determined by the NMOCD ranking score per NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking score of 20. Laboratory analytical results from composite sample SC-1 reported benzene, total BTEX, and TPH as GRO/DRO below NMOCD action levels. The chloride concentration in SC-1 was 81 mg/kg.

Based on laboratory analytical results benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels. No further work is recommended at the Hardie A 1B produced water release location.

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

Sincerely,

Landrea Cupps

Environmental Scientist

Landre R. Cupps

Lisa Hunter Hardie A 1B Produced Water Release Report April 17, 2013 Page 4 of 4

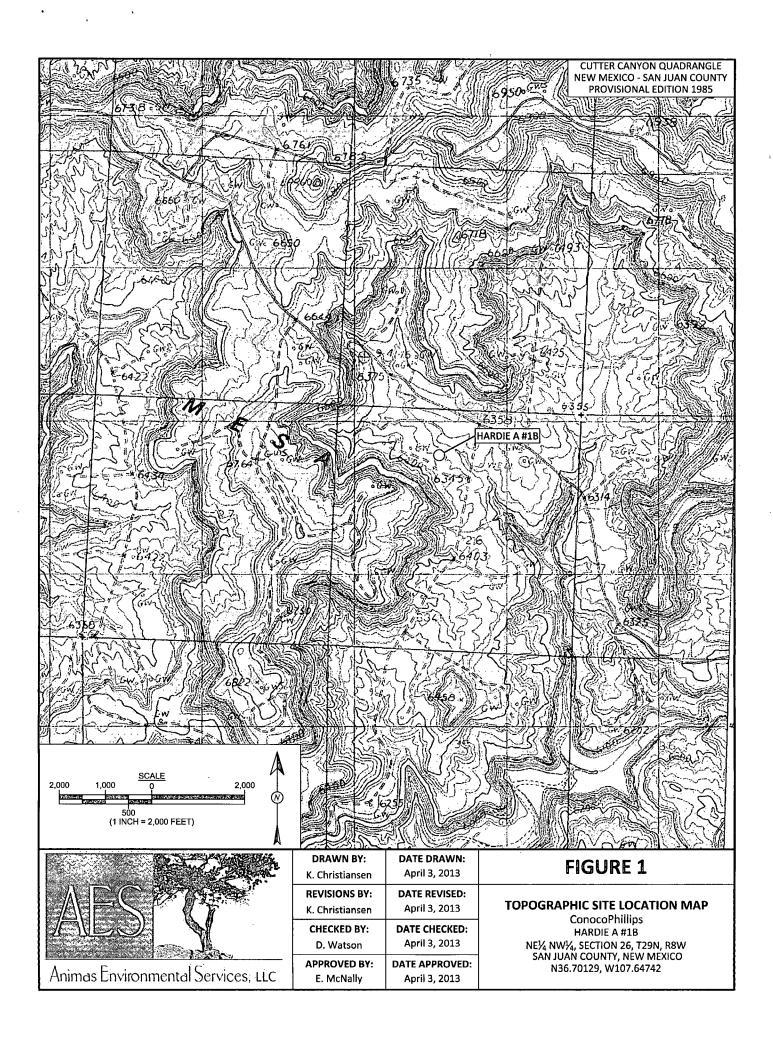
Elizabeth V Mindly

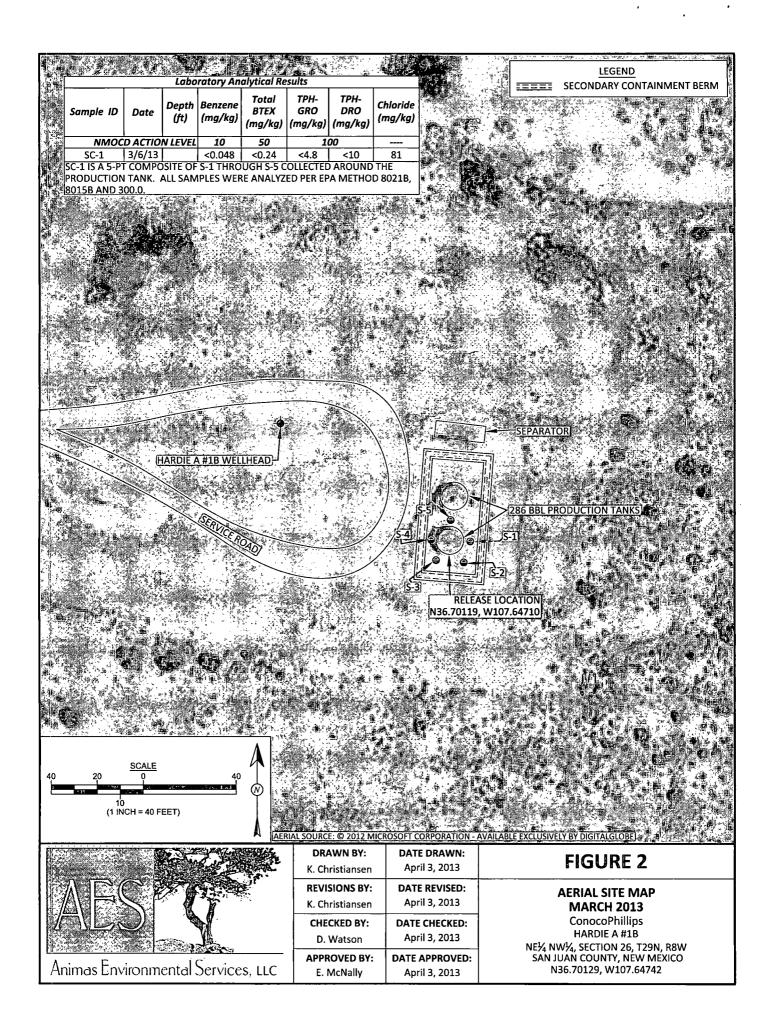
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, March 2013 Hall Analytical Report 1303333

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Hardie A 1B\Hardie A 1B Produced Water Release Report 041713.docx







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

March 13, 2013

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

FAX

RE: CoP Hardie A 1B

OrderNo.: 1303333

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/7/2013 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 www.hallenvironmental.com 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1303333

Date Reported: 3/13/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: CoP Hardie A 1B

Lab ID: 1303333-001

Client Sample ID: SC-1

Collection Date: 3/6/2013 9:17:00 AM

Received Date: 3/7/2013 9:56:00 AM

Analyses	Result RL Qual Units		al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS			-	Analyst: MMD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/12/2013 12:45:02 PM
Surr: DNOP	117	72.4-120	%REC	1	3/12/2013 12:45:02 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/8/2013 3:18:35 PM
Surr: BFB	109	84-116	%REC	1	3/8/2013 3:18:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	3/8/2013 3:18:35 PM
Toluene	ND	0.048	mg/Kg	1	3/8/2013 3:18:35 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/8/2013 3:18:35 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/8/2013 3:18:35 PM
Surr: 4-Bromofluorobenzene	108	80-120	%REC	1	3/8/2013 3:18:35 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	81	7.5	mg/Kg	5	3/12/2013 3:34:06 PM

Matrix: SOIL

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 1 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303333

13-Mar-13

Animas Environmental Services Client:

Project:

CoP Hardie A 1B

Sample ID MB-6444

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 6444

RunNo: 9153

Prep Date: 3/12/2013

Analysis Date: 3/12/2013

SeqNo: 260379

Units: mg/Kg

HighLimit

RPDLimit

Analyte Chloride

PQL Result ND 1.5

TestCode: EPA Method 300.0: Anions

%REC LowLimit

%RPD

Qual

Sample ID LCS-6444

SampType: LCS

Client ID: LCSS

Batch ID: 6444

RunNo: 9153

Units: mg/Kg

Prep Date: 3/12/2013 Analysis Date: 3/12/2013

14

SeqNo: 260380

Analyte

Result

PQL

SPK value SPK Ref Val %REC 94.2

HighLimit

%RPD **RPDLimit**

15.00

SPK value SPK Ref Val

110

Qual

Chloride

Sample ID 1303394-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

LowLimit

90

Client ID: **BatchQC**

Result

Result

42

40

Batch ID: 6444

PQL

7.5

1.5

RunNo: 9153

Units: mg/Kg

Qual

Analyte

Prep Date: 3/12/2013

Analysis Date: 3/12/2013

SPK value SPK Ref Val %REC

LowLimit 64.4

HighLimit 117

%RPD **RPDLimit**

Qual

Chloride

Client ID:

Sample ID 1303394-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

80.5

RunNo: 9153

SeqNo: 260382

Analyte

BatchQC Prep Date: 3/12/2013 Batch ID: 6444

SeqNo: 260383

Units: mg/Kg

HighLimit

%RPD

RPDLimit

20

Chloride

Analysis Date: 3/12/2013

7.5

SPK value SPK Ref Val 15.00

15.00

27.88

27.88

%REC 94.9

LowLimit

64.4

117

5.27

Qualifiers:

RL

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Reporting Detection Limit

Analyte detected below quantitation limits J

P Sample pH greater than 2 В Analyte detected in the associated Method Blank

Η 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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303333

13-Mar-13

Client:

Animas Environmental Services

Project:	CoP Hard	lie A 1B												
Sample ID	1303336-001AMS	SampT	ype: M :	s	Tes	tCode: El	PA Method	8015B: Dies	el Range C	Organics				
Client ID:	BatchQC	Batch	ID: 64	103	R	RunNo: 9	099							
Prep Date:	3/8/2013	Analysis Da	ate: 3	/12/2013	S	SeqNo: 2	59283	Units: %RE	C ·					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOF)	5.0		4.873		102	72.4	120						
Sample ID	1303336-001AMSI	SampT	ype: M	SD	TestCode: EPA Method 8015B: Diesel Range Organics									
Client ID:	BatchQC	Batch	ID: 64	103	F	RunNo: 9	099							
Prep Date:	3/8/2013	Analysis Da	ate: 3	/12/2013	S	SeqNo: 2	59284	Units: %RE	C					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOF)	5.5		5.176		106	72.4	120	0	0				
Sample ID	MB-6400	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics				
Client ID:	PBS	Batch ID: 6400				RunNo: 9	099							
Prep Date:	3/8/2013	Analysis Da	ate: 3	/12/2013	S	SeqNo: 2	59673	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Surr: DNOF	Organics (DRO)	ND 10	10	10.00		102	72.4	120						
Sample ID	LCS-6400	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics				
Sample ID Client ID:		•	ype: L 0			tCode: El		8015B: Dies	el Range (Organics				
Client ID:		•	ID: 6 4	100	F		099	8015B: Dies Units: mg/l		Organics	·			
Client ID:	LCSS	Batch	ID: 6 4	100 /12/2013	F	RunNo: 9 SeqNo: 2	099			Organics RPDLimit	Qual			
Client ID: Prep Date: Analyte Diesel Range	LCSS 3/8/2013 Organics (DRO)	Batch Analysis D Result 47	ID: 64 ate: 3	100 /12/2013 SPK value 50.00	F	RunNo: 9 SeqNo: 2 %REC 94.5	099 59675 LowLimit 47.4	Units: mg/F HighLimit	√g	-	Qual			
Client ID: Prep Date: Analyte	LCSS 3/8/2013 Organics (DRO)	Batch Analysis D Result	ID: 64 ate: 3	100 /12/2013 SPK value	F S SPK Ref Val	RunNo: 9 SeqNo: 2 %REC	099 59675 LowLimit	Units: mg/l	√g	-	Qual			
Client ID: Prep Date: Analyte Diesel Range Surr: DNOF	LCSS 3/8/2013 Organics (DRO)	Batch Analysis D Result 47	ID: 64 ate: 3 PQL 10	SPK value 50.00 5.000	SPK Ref Val	RunNo: 9 SeqNo: 2 %REC 94.5 101	099 59675 LowLimit 47.4 72.4	Units: mg/F HighLimit	< g %RPD	RPDLimit	Qual			
Client ID: Prep Date: Analyte Diesel Range Surr: DNOF	LCSS 3/8/2013 Organics (DRO)	Batch Analysis D. Result 47 5.1 SampT	ID: 64 ate: 3 PQL 10	SPK value 50.00 5.000	SPK Ref Val 0	RunNo: 9 SeqNo: 2 %REC 94.5 101	099 59675 LowLimit 47.4 72.4	Units: mg/l HighLimit 122 120	< g %RPD	RPDLimit	Qual			
Client ID: Prep Date: Analyte Diesel Range Surr: DNOF	Organics (DRO) 1303331-001AMS BatchQC	Batch Analysis D. Result 47 5.1 SampT	ID: 64 ate: 3 PQL 10 ype: M:	SPK value 50.00 5.000 5.000	SPK Ref Val 0	RunNo: 9 SeqNo: 2 %REC 94.5 101 tCode: El	099 59675 LowLimit 47.4 72.4 PA Method	Units: mg/l HighLimit 122 120	∢g %RPD sel Range ∢	RPDLimit	Qual			
Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID Client ID: Prep Date: Analyte	Organics (DRO) 1303331-001AMS BatchQC 3/8/2013	Batch Analysis D. Result 47 5.1 SampTy Batch Analysis D. Result	PQL 10 10 10: 64 1D: 64 ate: 3	SPK value 50.00 5.000 5.000 8 100 /12/2013 SPK value	SPK Ref Val 0 Tes F SPK Ref Val	RunNo: 9 SeqNo: 2 %REC 94.5 101 tCode: El RunNo: 9 SeqNo: 2 %REC	099 59675 LowLimit 47.4 72.4 PA Method 099 59695 LowLimit	Units: mg/li HighLimit 122 120 8015B: Dies Units: mg/li HighLimit	∢g %RPD sel Range ∢	RPDLimit	Qual			
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Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID Client ID:	Organics (DRO) 1303331-001AMS BatchQC 3/8/2013 Organics (DRO) 1303331-001AMSI BatchQC	Batch Analysis D Result 47 5.1 SampTy Batch Analysis D Result 48 5.6 D SampTy Batch	ID: 64 ate: 3 PQL 10 ID: 64 ate: 3 PQL 10 ID: 64 ID: 64	SPK value 50.00 5.000 5.000 S 100 SPK value 51.98 5.198 SD	SPK Ref Val 0 Tes SPK Ref Val 0 Tes F	RunNo: 9 SeqNo: 2 %REC 94.5 101 tCode: El RunNo: 9 SeqNo: 2 %REC 92.8 108 tCode: El RunNo: 9	099 59675 LowLimit 47.4 72.4 PA Method 099 59695 LowLimit 12.6 72.4 PA Method 099	Units: mg/li HighLimit 122 120 8015B: Dies Units: mg/li HighLimit 148 120 8015B: Dies	%RPD el Range (%RPD	RPDLimit Organics RPDLimit				
Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID Client ID: Prep Date:	Organics (DRO) 1303331-001AMS BatchQC 3/8/2013 Organics (DRO) 1303331-001AMS BatchQC	Batch Analysis D Result 47 5.1 SampT Batch Analysis D Result 48 5.6 D SampT Batch Analysis D	PQL 10 10 10 64 ate: 3 PQL 10 10 10 10 10 10 10 64 ate: 3 10 10 10 64 ate: 3	SPK value 50.00 5.000 5.000 S 100 712/2013 SPK value 51.98 5.198 SD 100 712/2013	SPK Ref Val O Tes SPK Ref Val O Tes	RunNo: 9 SeqNo: 2 %REC 94.5 101 tCode: El RunNo: 9 SeqNo: 2 %REC 92.8 108 tCode: El RunNo: 9	099 59675 LowLimit 47.4 72.4 PA Method 099 59695 LowLimit 12.6 72.4 PA Method 099 59748	Units: mg/li HighLimit 122 120 8015B: Dies Units: mg/li HighLimit 148 120 8015B: Dies Units: mg/li	Kg %RPD WRPD WRPD WRPD WRPD WRPD	RPDLimit Organics RPDLimit Organics	Qual			
Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID: Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID: Client ID: Prep Date: Analyte Analyte	Organics (DRO) 1303331-001AMS BatchQC 3/8/2013 Organics (DRO) 1303331-001AMSI BatchQC 3/8/2013	Batch Analysis D Result 47 5.1 SampT Batch Analysis D Result 48 5.6 D SampT Batch Analysis D Result Result Result Result Result Result Result Result Result	ID: 64 ate: 3 PQL 10 ype: M ID: 64 ate: 3 PQL 10 ype: M PQL 10 PQL 10 PQL Ate: 3	SPK value 50.00 5.000 5.000 S 100 712/2013 SPK value 51.98 5.198 SD 100 712/2013 SPK value	SPK Ref Val O Tes SPK Ref Val O Tes SPK Ref Val SPK Ref Val	RunNo: 9 SeqNo: 2 %REC 94.5 101 tCode: El RunNo: 9 SeqNo: 2 %REC 92.8 108 tCode: El RunNo: 9 SeqNo: 2	099 59675 LowLimit 47.4 72.4 PA Method 099 59695 LowLimit 12.6 72.4 PA Method 099 59748 LowLimit	Units: mg/li HighLimit 122 120 8015B: Dies Units: mg/li HighLimit 148 120 8015B: Dies Units: mg/li HighLimit	Kg %RPD	RPDLimit Drganics RPDLimit RPDLimit				
Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID: Client ID: Prep Date: Analyte Diesel Range Surr: DNOF Sample ID: Client ID: Prep Date: Analyte Analyte	1303331-001AMS BatchQC 3/8/2013 Organics (DRO) 1303331-001AMS BatchQC 3/8/2013 Organics (DRO) Organics (DRO)	Batch Analysis D Result 47 5.1 SampT Batch Analysis D Result 48 5.6 D SampT Batch Analysis D	PQL 10 10 10 64 ate: 3 PQL 10 10 10 10 10 10 10 64 ate: 3 10 10 10 64 ate: 3	SPK value 50.00 5.000 5.000 S 100 712/2013 SPK value 51.98 5.198 SD 100 712/2013 SPK value	SPK Ref Val O Tes SPK Ref Val O Tes	RunNo: 9 SeqNo: 2 %REC 94.5 101 tCode: El RunNo: 9 SeqNo: 2 %REC 92.8 108 tCode: El RunNo: 9	099 59675 LowLimit 47.4 72.4 PA Method 099 59695 LowLimit 12.6 72.4 PA Method 099 59748	Units: mg/li HighLimit 122 120 8015B: Dies Units: mg/li HighLimit 148 120 8015B: Dies Units: mg/li	Kg %RPD el Range (Kg %RPD el Range (Kg	RPDLimit Organics RPDLimit Organics	Qual			

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 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303333

13-Mar-13

Client:

Animas Environmental Services

Result

Project:

CoP Hardie A 1B

Sample ID MB-6447

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID:

Batch ID: 6447

RunNo: 9140

%RPD

PBS

Units: %REC

120

Prep Date: Analyte

3/12/2013

Analysis Date: 3/13/2013

SeqNo: 260075 %REC

106

HighLimit

RPDLimit

Qual

Surr: DNOP

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: LCSS

PQL

RunNo: 9140

Sample ID LCS-6447

Batch ID: 6447

Units: %REC

Prep Date: 3/12/2013 Analysis Date: 3/13/2013

SeqNo: 260076 SPK value SPK Ref Val %REC

HighLimit

RPDLimit

Analyte

Result 5.3

5.000

SPK value SPK Ref Val

%RPD

Qual

Surr: DNOP

106

LowLimit 72.4

LowLimit

72.4

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

Sample pH greater than 2 P 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 Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

1303333

WO#:

13-Mar-13

Client:

Animas Environmental Services

1200

969.0

Project: CoP Hard	die A 1B													
Sample ID MB-6381	SampTyp	oe: ME	BLK	TestCode: EPA Method 8015B: Gasoline Range										
Client ID: PBS	Batch II	D: 63	B1	RunNo: 9092										
Prep Date: 3/7/2013	Analysis Dat	Analysis Date: 3/8/2013 Se			SeqNo: 2	58935	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	ND	5.0												
Surr: BFB	1100		1000		109	84	116							
Sample ID LCS-6381	SampTyp	e: LC	s	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e					
Client ID: LCSS	Batch I	D: 63	B1	F	RunNo: 9092									
Prep Date: 3/7/2013	Analysis Dat	te: 3/	8/2013	S	SeqNo: 2	58939	Units: mg/k	ίg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	62.6	136							
Surr: BFB	1100		1000		114	84	116			<u></u>				
Sample ID 1303284-002AMS	SampTyp	e: MS	3	TestCode: EPA Method 8015B: Gasoline Range										
Client ID: BatchQC	Batch I	D: 63 8	B1	F	Run N o: 9	092								
Prep Date: 3/7/2013	Analysis Dat	te: 3/	8/2013	S	SeqNo: 2	58961	Units: mg/K	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	28	4.9	24.30	0	114	70	130	-						
Surr: BFB	1200		971.8		127	84	116		·	S				
Sample ID 1303284-002AMS	D SampTyp	oe: MS	SD	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	<u> </u>					
Client ID: BatchQC	Batch II	D: 63	B1	F	RunNo: 9	092								
Prep Date: 3/7/2013	Analysis Dat	te: 3/	8/2013	S	SeqNo: 2	58962	Units: mg/K	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	32	4.8	24.22	0	133	70	130	14.6	22.1	s				

Qualifiers:

Surr: BFB

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

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

125

116

- RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303333

13-Mar-13

Client:

Animas Environmental Services

Project:	CoP Hard	die A 1B									
Sample ID	MB-6381	SampT	Гуре: МЕ	BLK	Tes	Code: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batcl	h ID: 63 8	B1	F	lunNo: 9	092				
Prep Date:	3/7/2013	Analysis D	Date: 3/	8/2013	S	eqNo: 2	58989	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND 0.050									
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	1.1		1.000		108	80	120			
Sample ID	LCS-6381	Samp1	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batcl	h ID: 63 8	81	F	tunNo: 9	092				
Prep Date:	3/7/2013	Analysis E	Date: 3/	8/2013	S	eqNo: 2	58993	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.88	0.050	1.000	0	87.7	80	120			
Toluene		0.89	0.050	1.000	0	88.8	80	120			
Ethylbenzene		0.91	0.050	1.000	0	90.7	80	120	•		
Xylenes, Total		2.7	0.10	3.000	0	89.8	80	120			
Surr: 4-Brom	nofluorobenzene	1.1		1.000		112	80	120			
Sample ID 1303284-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles											
Sample ID	1303284-001AMS	Samp	Гуре: МS	· ·	Tes	Code: E	PA Method	8021B: Vola	tiles		
Sample ID Client ID:	1303284-001AMS BatchQC	•	Гуре: МS h ID: 63			Code: El		8021B: Vola	tiles		
1	BatchQC	•	h ID: 63	81	F		092	8021B: Vola Units: mg/F			
Client ID:	BatchQC	Batcl	h ID: 63	81 8/2013	F	tunNo: 9	092			RPDLimit	Qual
Client ID: Prep Date:	BatchQC	Batcl Analysis D	h ID: 63	81 8/2013	F	RunNo: 9 SeqNo: 2	092 59004	Units: mg/h	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte	BatchQC	Batch Analysis D Result	h ID: 63 i Date: 3 /	81 8/2013 SPK value	SPK Ref Val	RunNo: 9 SeqNo: 2 %REC	092 59004 LowLimit	Units: mg/r	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene	BatchQC	Batch Analysis E Result 0.88	h ID: 63 Date: 3 / PQL 0.047	81 8/2013 SPK value 0.9416	SPK Ref Val	RunNo: 9 SeqNo: 2 %REC 93.1	092 59004 LowLimit 67.2	Units: mg/F HighLimit	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene	BatchQC	Batch Analysis D Result 0.88 0.89	PQL 0.047 0.047	81 8/2013 SPK value 0.9416 0.9416	SPK Ref Val	RunNo: 9 BeqNo: 2 %REC 93.1 94.1	092 59004 LowLimit 67.2 62.1	Units: mg/k HighLimit 113 116	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BatchQC	Batcl Analysis E Result 0.88 0.89 0.90	PQL 0.047 0.047 0.047	81 8/2013 SPK value 0.9416 0.9416	SPK Ref Val 0 0 0	RunNo: 9 SeqNo: 2 %REC 93.1 94.1 96.1	092 59004 LowLimit 67.2 62.1 67.9	Units: mg/k HighLimit 113 116 127	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BatchQC 3/7/2013	Result 0.88 0.89 0.90 2.7 1.1	PQL 0.047 0.047 0.047	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416	SPK Ref Val 0 0 0 0	RunNo: 9 ReqNo: 2 REC 93.1 94.1 96.1 95.4 117	092 59004 LowLimit 67.2 62.1 67.9 60.6 80	Units: mg/k HighLimit 113 116 127 134	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BatchQC 3/7/2013	Result 0.88 0.89 0.90 2.7 1.1	PQL 0.047 0.047 0.047 0.047 0.094	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416	SPK Ref Val 0 0 0 0 Tes	RunNo: 9 ReqNo: 2 REC 93.1 94.1 96.1 95.4 117	092 59004 LowLimit 67.2 62.1 67.9 60.6 80 PA Method	Units: mg/k HighLimit 113 116 127 134 120	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BatchQC 3/7/2013 nofluorobenzene 1303284-001AMS	Result 0.88 0.89 0.90 2.7 1.1	PQL 0.047 0.047 0.094 Type: MS h ID: 638	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416	SPK Ref Val 0 0 0 0 Tes	8tunNo: 9 8eqNo: 2 %REC 93.1 94.1 96.1 95.4 117	092 59004 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 092	Units: mg/k HighLimit 113 116 127 134 120	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	BatchQC 3/7/2013 nofluorobenzene 1303284-001AMS	Result 0.88 0.89 0.90 2.7 1.1 D Sampl Batcl Analysis E Result	PQL 0.047 0.047 0.047 0.094 Type: MS h ID: 63/	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416 6D 81 8/2013 SPK value	SPK Ref Val 0 0 0 0 Tes	tunNo: 9 teqNo: 2 %REC 93.1 94.1 96.1 95.4 117 Code: El tunNo: 9 teqNo: 2 %REC	092 59004 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 092 59006 LowLimit	Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit	Kg %RPD tiles Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	BatchQC 3/7/2013 nofluorobenzene 1303284-001AMS	Result 0.88 0.89 0.90 2.7 1.1 D Samp T Batcl Analysis E Result 0.89	PQL 0.047 0.047 0.094 Type: MS h ID: 63/ Date: 3/ PQL 0.047	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416 6D 81 8/2013 SPK value 0.9398	SPK Ref Val 0 0 0 0 Tes S SPK Ref Val 0	etunNo: 9 seqNo: 2 %REC 93.1 94.1 96.1 95.4 117 stCode: El tunNo: 9 seqNo: 2 %REC 94.9	092 59004 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 092 59006 LowLimit 67.2	Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113	%RPD tiles %RPD 1.66	RPDLimit 14.3	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	BatchQC 3/7/2013 nofluorobenzene 1303284-001AMS	Result 0.88 0.89 0.90 2.7 1.1 D Sampl Batol Analysis D Result 0.89 0.89	PQL 0.047 0.094 Type: MS h ID: 634 PQL 0.047 0.094 Type: MS h ID: 634 PQL 0.047 0.047	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416 6D 81 8/2013 SPK value 0.9398 0.9398	SPK Ref Val 0 0 0 0 Tes F S SPK Ref Val 0 0	8tunNo: 9 seqNo: 2 %REC 93.1 94.1 95.4 117 8tCode: ExtunNo: 9 seqNo: 2 %REC 94.9 95.1	092 59004 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 092 59006 LowLimit 67.2 62.1	Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113 116	%RPD tiles %RPD 1.66 0.772	RPDLimit 14.3 15.9	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	BatchQC 3/7/2013 nofluorobenzene 1303284-001AMS	Result 0.88 0.89 0.90 2.7 1.1 D Sampl Batcl Analysis D Result 0.89 0.89 0.91	PQL 0.047 0.094 Sype: MS PQL 0.047 0.094 Sype: MS PQL 0.047 0.094 Oate: 3/- PQL 0.047 0.047 0.047 0.047	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416 6D 81 8/2013 SPK value 0.9398 0.9398 0.9398	SPK Ref Val 0 0 0 0 Tes SPK Ref Val 0 0 0	RunNo: 9 ReqNo: 2 %REC 93.1 94.1 95.4 117 RCode: El RunNo: 9 ReqNo: 2 %REC 94.9 95.1 96.9	092 59004 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 092 59006 LowLimit 67.2 62.1 67.9	Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113 116 127	%RPD tiles %RPD 1.66 0.772 0.640	RPDLimit 14.3 15.9 14.4	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BatchQC 3/7/2013 nofluorobenzene 1303284-001AMS	Result 0.88 0.89 0.90 2.7 1.1 D Sampl Batol Analysis D Result 0.89 0.89	PQL 0.047 0.094 Type: MS h ID: 634 PQL 0.047 0.094 Type: MS h ID: 634 PQL 0.047 0.047	81 8/2013 SPK value 0.9416 0.9416 2.825 0.9416 6D 81 8/2013 SPK value 0.9398 0.9398	SPK Ref Val 0 0 0 0 Tes F S SPK Ref Val 0 0	8tunNo: 9 seqNo: 2 %REC 93.1 94.1 95.4 117 8tCode: ExtunNo: 9 seqNo: 2 %REC 94.9 95.1	092 59004 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 092 59006 LowLimit 67.2 62.1	Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113 116	%RPD tiles %RPD 1.66 0.772	RPDLimit 14.3 15.9	

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

RLReporting Detection Limit 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

Spike Recovery outside accepted recovery limits

Page 6 of 6



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, 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: 1303333 Received by/date 3/7/2013 9:56:00 AM Logged By: Michelle Garcia Completed By: Michelle Garcia 3/7/2013 3:07:34 PM Reviewed By: Chain of Custody Yes 🗌 No 🛄 Not Present ✓ 1. Were seals Intact? Yes 🗹 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier <u>Log In</u> Yes 🗹 No 🖸 NA 🔲 4. Coolers are present? (see 19. for cooler specific information) Yes V 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 🗌 7. Sample(s) in proper container(s)? Yes 🗹 No 🗌 8 Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? Yes 🗹 No 🗌 NA 🗆 Yes 🗌 No 🗹 10. Was preservative added to bottles? Yes 🔲 No 🖸 No VOA Vials 🗹 11. VOA vials have zero headspace? Yes D No 🗹 12. Were any sample containers received broken? # of preserved Yes 🗹 No 🗌 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes 🗹 No 🗆 (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Yes 🔽 No 🗌 Adjusted? 15. Is it clear what analyses were requested? Yes 🗹 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) NA 🗹 Yes 🔲 No 🔲 17. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: **Client Instructions:** 18 Additional remarks: 19. Cooler Information Cooler No | Temp C | Condition | Seal Intact | Seal No | Good

ANALYSIS LABORATOR Services LLC Mailing Address: 624 F Comarch Rumping Dan N M \$7440 Project #: Project Manager: QNOC Package: Standard Date Time Matrix Sample Request ID Date Time Matrix Sample Request ID Date: Time: Reinculabed by: Received by: Received by: Received by: Received by: Received by: Received by: Packs I mine Reinculabed by: Received by: Received by: Packs I mine Reinfaction Conoco Phelips Received by: Packs I mine Reinfaction Conoco Phelips Received by: Packs I mine Rec	Chain-of-Custody Record				Tum-Around lime: HALL ENVIRONMENTAL											Af							
Remail of Factors Project Name: Name Project Name: Name Project Name: Name Na	Client:	Anım	ias E	rivonmental			l																
Mailing Address: 624				****	Project Name	∌ :			www.hallenvironmental.com														
Tell 505-345-3975 Fax 505-345-4107 Phone #: 505 564 2.28 Project Manager: Quadrage: Qua	Mailing	Address	62A	F. Comanche	COP H	ardie A	IB		•														
Phone #: 505 564 2.28 Project Manager: QACC Package: Standard	Fan	nunst	on N	M 8 740 1	Project #:																		
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3-6-13 917 Soil SC-1 2-40z Cold -001 X X	Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	TIE Taga		+	BTEX + MT	TPH 8015B	TPH (Metho	EDB (Metho	PAH's (831	RCRA 8 Me	Anions (F,C	8081 Pestic	8260B (VO	8270 (Semi	٥			Air Bubbles
	3-6-13	917	Sil	Sc-1	2-402	cold	_	-001								-3-				X		\top	T
Date: Time: Relinquished by: All 3 123		,																			\top		1
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