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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011
mit 1 Copy to appropriate District Office to

Form C-141

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.

			Rele	ease Notific	ation	and Co	rrective A	ction	1			
						OPERA	TOR		Initi	al Report	\boxtimes	Final Repor
Name of Co	mpany B	urlington Res	sources O	il & Gas Compan	ıy	Contact Cr	ystal Tafoya					
Address 340	01 East 30	th St, Farmin	gton, NM	1			No.(505) 326-98	337				
		uan 32-9 Un					e: Gas Well					
									ADIA	20.04#.0		
Surface Ow	ner BLIVI		-	Mineral O	wner E	BLM (SF-07	8389-A)		APINO	0.30-045-24	876	
	·					OF REI	LEASE					
Unit Letter	Section 12	Township	Range	Feet from the		South Line	Feet from the	1	West Line	County		
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				Latitude <u>36</u>	<u>.91653</u>	Longitud	e <u>-107.83705</u>					
				NAT	URE	OF REL	EASE					
Type of Rele		luced Fluids				Volume of	Release Unki	nown	Volume I	Recovered	234	cu. yds.
Source of Re	lease Belo	ow Grade Ta	nk			Date and F	our of Occurrence	e	Date and	Hour of Dis	covery	
				-		Unknown		,,	5/1/2014			
Was Immedia	ate Notice (If YES, To	Whom?					
		LJ	Yes _] No 🛛 Not Re	quired							
By Whom?						Date and F	our		· · · ·			
Was a Water	course Read	ched?				If YES, Vo	lume Impacting t	he Wat	ercourse.			
			Yes 🛛 🛚	No			. 0					
If a Watercou	ırse was Im	nacted. Descr	ibe Fully.	k								•
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	rade tank s				andard	s by USEPA	method 418.1 fo	r TPH	confirming	g a release.	The ex	cavation
		ample result	s were ab	ten.* ove regulatory sta vas transported to								
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* Attach Additional Sheets If Necessary

Phone: (505) 326-9837

Date: 7/8/2014

MX1424842845



July 7, 2014

Crystal Tafoya ConocoPhillips San Juan Business Unit Office 214-05 5525 Hwy 64 Farmington, New Mexico 87401

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

RE: Release Assessment and Final Excavation Report

San Juan 32-9 #45A San Juan County, New Mexico

Dear Ms. Tafoya:

On May 2, 7, and 20, 2014, Animas Environmental Services, LLC (AES) completed a release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 32-9 #45A, located in San Juan County, New Mexico. Historic contamination was discovered during facility reset activities. The release assessment was completed by AES on May 7, 2014, and the final excavation was completed by CoP contractors prior to AES' arrival at the location on May 20, 2014.

1.0 Site Information

1.1 Location

Site Name - San Juan 32-9 #45A

Location – NE% NW%, Section 12, T31N, R10W, San Juan County, New Mexico Well Head Latitude/Longitude – N36.91647 and W107.83769, respectively Release Location Latitude/Longitude – N36.91639 and W107.83778, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, May 2014

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD Guidelines for Remediation of Leaks, Spills,

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

www.animasenvironmental.com

Durango, Colorado 970-403-3084 and Releases (August 1993) prior to site work. The release was given a ranking score of 10 based on the following factors:

- Depth to Groundwater: A cathodic protection report from the San Juan 32-9 #44 and #99, approximately 3,500 feet to the west and 100 feet lower in elevation, reported the depth to groundwater as 90 to 95 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The tank location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An unnamed ephemeral stream in Miller Canyon is located approximately 670 feet to the north. (10 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on May 1, 2014, and on May 2, 2014, Deborah Watson and Lavina Lamone of AES completed the initial assessment field work. The assessment included collection and field sampling of one composite sample of contaminated soils in the north wall of a previously excavated area. Based on the field sampling results, AES recommended a release assessment on the north side of the excavation due to the close proximity of in place equipment. The previously excavated area associated with facility reset activities measured approximately 26 feet by 34 feet by 7 feet in depth.

On May 7, 2014, AES personnel returned to complete an additional release assessment. The assessment included collection of 10 soil samples from 3 soil borings on the north side of the excavation near the separator. Soil borings were terminated on sandstone at approximately 5 feet bgs. Based on the field sampling results, AES recommended additional excavation of the release area. Sample locations from the May 2 and 7, 2014 release assessment are shown on Figure 3.

On May 20, 2014, AES returned to the location to collect a confirmation soil sample of the excavation. The field sampling activities included collection of one confirmation soil sample from the excavation. The area of the final excavation of impacted soils measured approximately 2 feet by 10 feet by 7 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 10 soil samples from 3 borings (SB-1 through SB-3) and 2 composite samples (SC-1 through SC-2) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also

analyzed for total petroleum hydrocarbons (TPH). Two composite samples (SC-1 and SC-2) were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples SC-1 and SC-2 were laboratory analyzed for:

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

2.3 Field and Laboratory Analytical Results

On May 2 and 7, 2014, assessment field screening results for VOCs via OVM ranged from 0.1 ppm in SB-2 up to 33.3 ppm in SC-1. Field TPH concentrations ranged from 20.1 mg/kg in SB-3 up to 11,000 mg/kg in SC-1.

On May 20, 2014, the final excavation field sampling results in SC-2 reported VOCs via OVM at 0.4 ppm and the field TPH concentrations at 212 mg/kg. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Field Sampling VOCs and TPH Results
San Juan 32-9 #45A Release Assessment and Final Excavation
May 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
NMO	CD Action Lev	el*	100	1,000
SC-1	5/2/14	1 to 7	33.3	11,000
		1	0.3	NA
CD 1	F /7 /4 A	3	0.4	NA
SB-1	5/7/14	5	0.2	NA
	•	5.5	0.2	34.2
		1	0.3	NA
SB-2	5/7/14	3	0.1	NA
	-	5	0.1	35.4
		1	0.5	NA
SB-3	5/7/14	3	0.3	NA
	·	5	0.3	20.1
SC-2	5/20/14	1 to 7	0.4	212

NA – not analyzed

Laboratory analyses for SC-1 were used to confirm field sampling results of the release assessment. TPH concentrations as GRO/DRO in SC-1 were reported at 6,105 mg/kg.

Laboratory analyses for SC-2 were used to confirm field sampling results from the final excavation. TPH concentrations as GRO/DRO in SC-2 were reported at 212 mg/kg. Results are presented in Table 2 and on Figures 3 and 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results –TPH
San Juan 32-9 #45A Release Assessment and Final Excavation, May 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMO	CD Action Lev	vel*	10	50	1,0	000
SC-1	5/2/14	1 to 7	NA	NA	5.0	6,100

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

		Sample		Total		
	Date	Depth	Benzene	BTEX	GRO	DRO
Sample ID	Sampled	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SC-2	5/20/14	1 to 7	NA	NA	<4.6	210

NA – not analyzed

3.0 Conclusions and Recommendations

On May 2 and 7, 2014, AES conducted an assessment of petroleum contaminated soils associated with a historic release discovered during facility reset activities at the San Juan 32-9 #45A. Action levels for releases are determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), and the site was assigned a rank of 10.

Assessment field sampling results above the NMOCD action level of 1,000 mg/kg TPH were reported in SC-1. The VOC concentration was reported at 33.3 ppm, and the TPH concentration was 11,000 mg/kg. Laboratory analyses for SC-1 were used to confirm field sampling results. TPH concentration as GRO/DRO exceeded the NMOCD action level of 1,000 mg/kg and was reported at 6,105 mg/kg. AES recommended excavation of an additional 2 feet to remove the petroleum hydrocarbon contaminated soil.

Prior to AES arrival on May 20, 2014, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC and field TPH concentrations were below applicable NMOCD action levels for the final walls and base of the excavation. Laboratory analytical results for TPH concentrations as GRO/DRO were reported below the applicable NMOCD action level of 1,000 mg/kg in SC-2.

Based on final field sampling and laboratory analytical results of the excavation extents at the San Juan 32-9 #45A, VOC and TPH concentrations were below applicable NMOCD action levels for the sidewalls and base of the excavation. No further work is recommended.

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

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

Sincerely,

Emilee Skyles Staff Geologist

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, May 2014

Figure 3. Release Assessment Sample Locations and Results, May 2014

Figure 4. Final Excavation Sample Locations and Results, May 2014

AES Field Sampling Report 050214

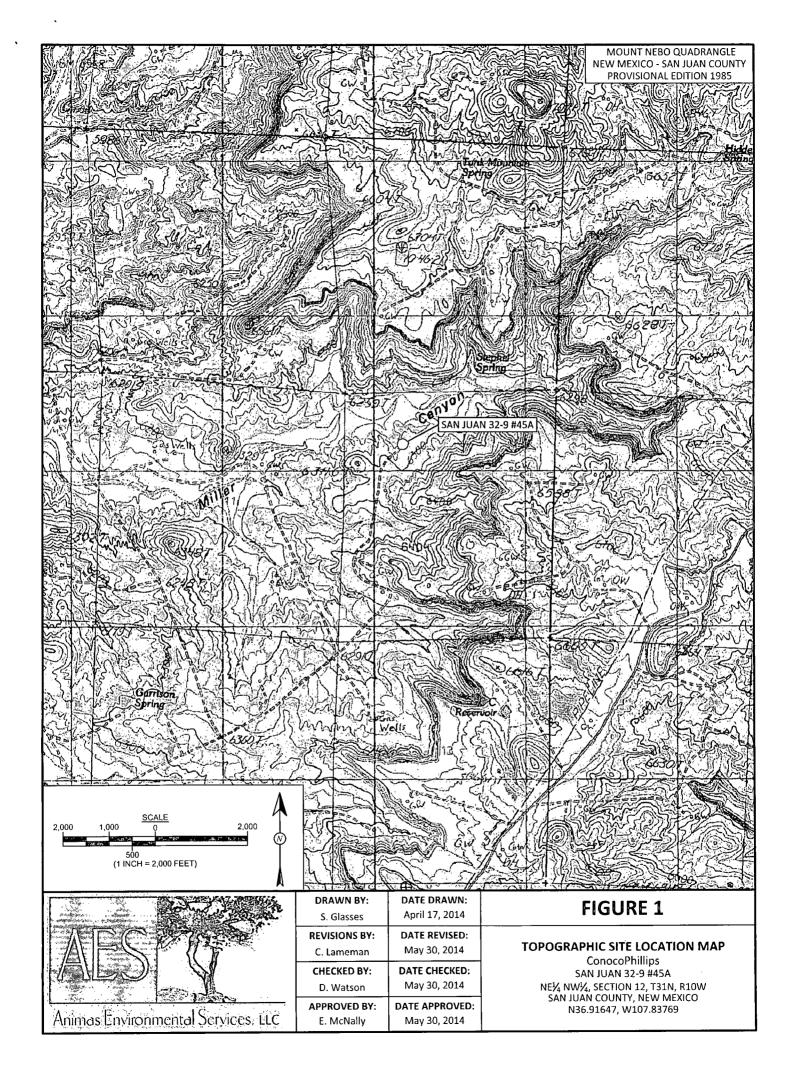
AES Field Sampling Report 050714

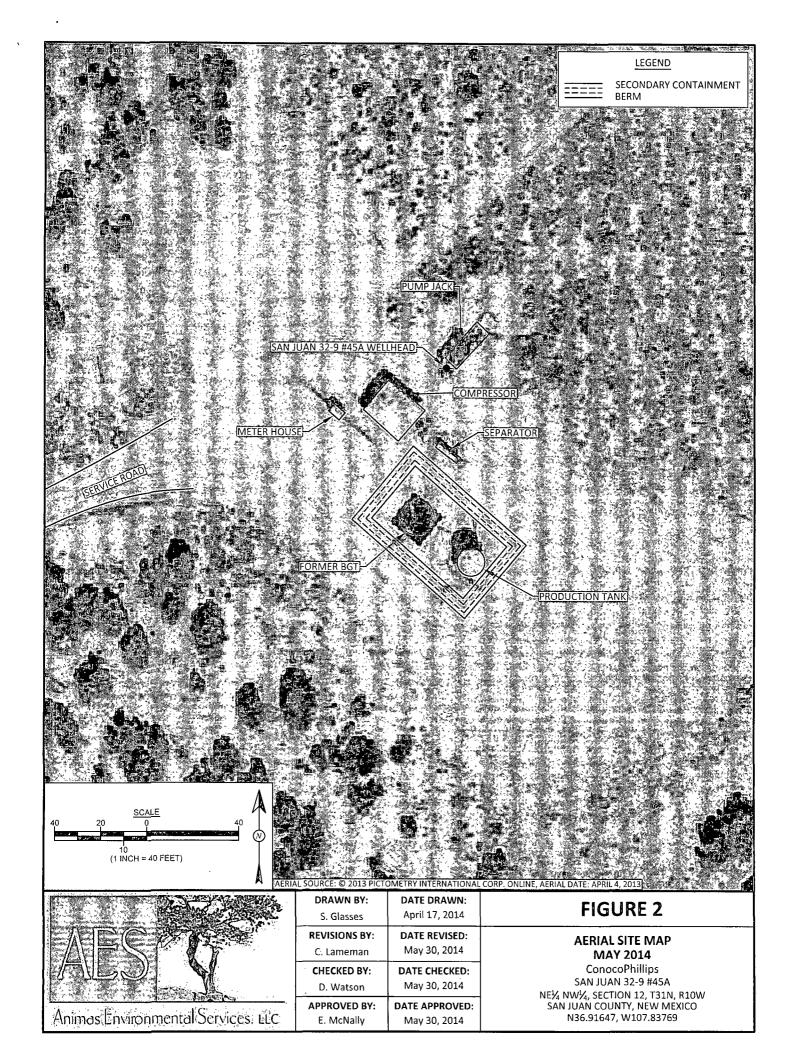
AES Field Sampling Report 052014

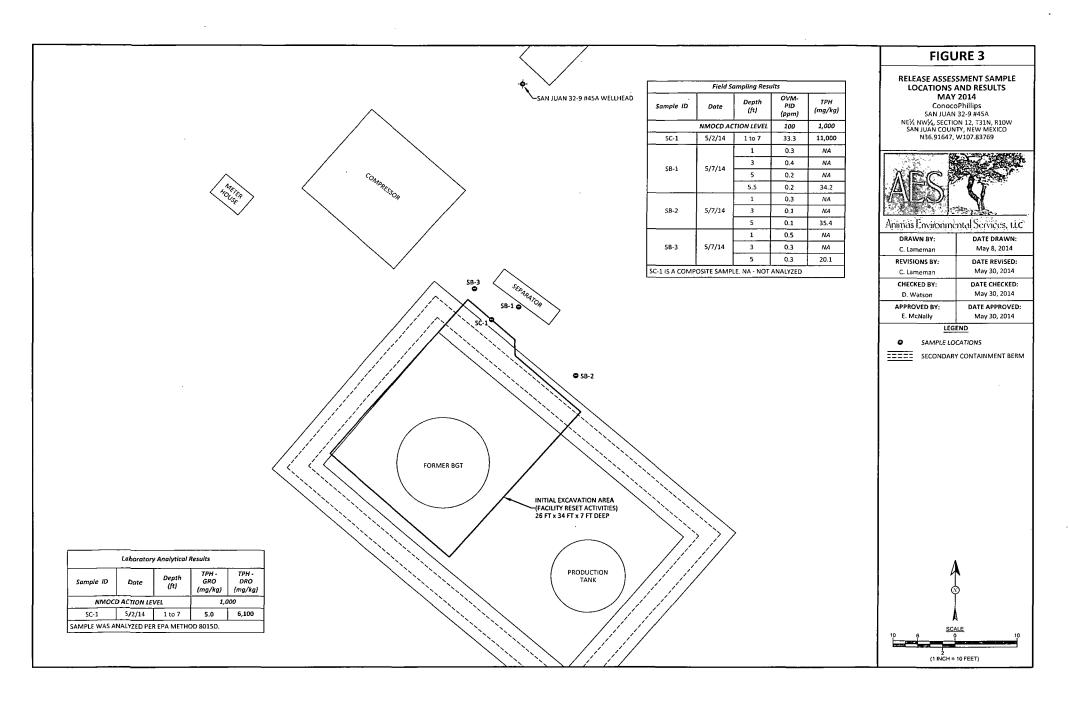
Hall Laboratory Analytical Report 1405104

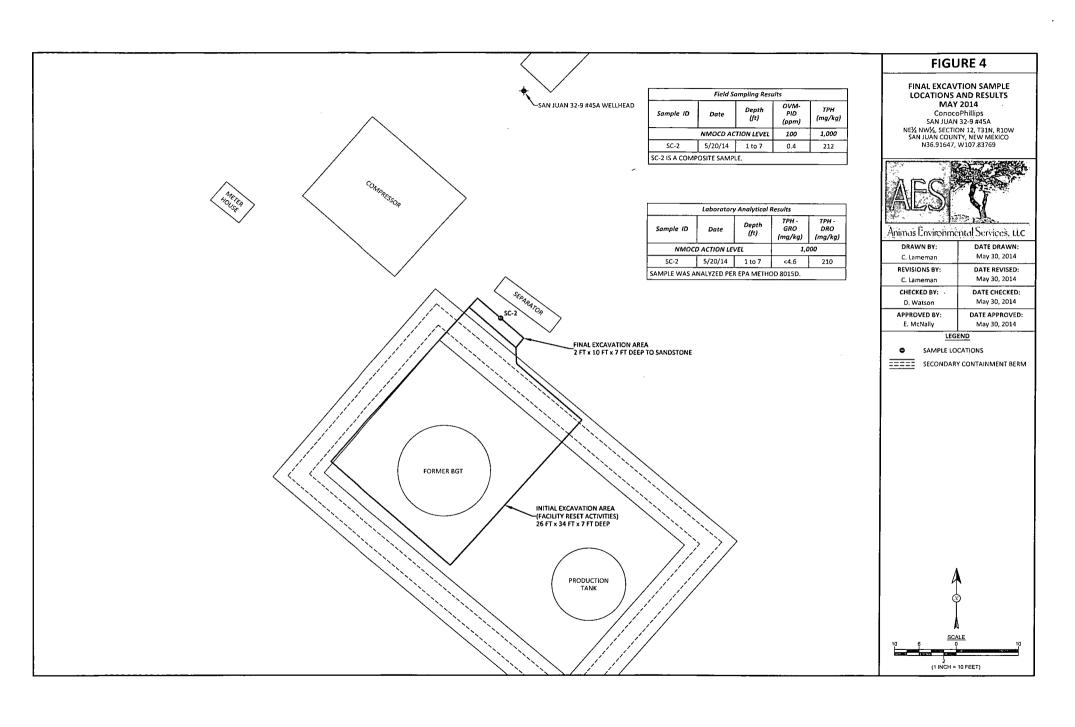
Hall Laboratory Analytical Report 1405894

SVRMAIN2\Shared\Animas 2000\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\SJ 32-9 #45A\Release Assessment\CoP San Juan 32-9 #45A Release and Final Excavation Report 070714.docx









AES Field Sampling Report

Client: ConocoPhillips

Project Location: San Juan 32-9 #45A

Date: 5/2/2014

Matrix: Soil



www.animasenvironmental.com:

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

> Durango, Colorado 970-403-3084

		Time of			TPH				TPH
	Collection	Sample		OVM	Analysis	TPH*	TPH PQL		Analysts
Sample ID	Date	Collection	Sample Location	(ppm)	Time	(mg/kg)	(mg/kg)	DF	Initials
			Composite						
SC-1	5/2/2014	12:25	Northeast Wall	33.3	13:10	11,000	200	10	DAW

DF

Dilution Factor

NΑ

Not Analyzed

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitation Limit

* TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

AES Field Sampling Report

AES G

Animas Environmental Services, acc

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 32-9 #45A

Date: 5/7/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 1'	5/7/2014	9:32	0.3		Not	Analyzed for T	РΗ	
SB-1 @ 3'	5/7/2014	9:39	0.4		Not	Analyzed for T	РH	
SB-1 @ 5'	5/7/2014	9:45	0.2		Not	Analyzed for T	РΗ	
SB-1 @ 5.5'	5/7/2014	9:47	0.2	34.2	10:37	20.0	1	EMS
SB-2 @ 1'	5/7/2014	9:55	0.3		Not	Analyzed for T	РΗ	
SB-2 @ 3'	5/7/2014	9:58	0.1		Not	Analyzed for T	PH	
SB-2 @ 5'	5/7/2014	10:02	0.1	35.4	10:40	20.0	1	EMS
SB-3 @ 1'	5/7/2014	10:55	0.5		Not	Analyzed for T	РΗ	
SB-3 @ 3'	5/7/2014	10:59	0.3		Not	Analyzed for T	РΗ	
SB-3 @ 5'	5/7/2014	11:04	0.3	20.1	11:23	20.0	1	EMS

DF

Dilution Factor

NA

Not Analyzed

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Page 1

Report Finalized: 5/7/14

AES Field Sampling Report

Client: ConocoPhillips

Project Location: San Juan 32-9 #45A

Date: 5/20/2014

Matrix: Soil



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

		Time of			TPH				TPH
	Collection	Sample	Sample	OVM	Analysis	TPH*	TPH PQL		Analysts
Sample ID	Date	Collection	Location	(ppm)	Time	(mg/kg)	(mg/kg)	DF	Initials
		-	Excavation						
SC-2	5/20/2014	7:15	Composite	0.4	7:35	212	20.0	1	DAW

DF

Dilution Factor

NA

Not Analyzed

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Debrah Water

Analyst:



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

OrderNo.: 1405104

May 06, 2014

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

FAX

RE: CoP San Juan 32-9 Unit 45A

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/3/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1405104

Date Reported: 5/6/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project:

CoP San Juan 32-9 Unit 45A

Collection Date: 5/2/2014 12:25:00 PM

Lab ID:

1405104-001

Matrix: SOIL

Received Date: 5/3/2014 10:20:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS					Analyst	: JME
Diesel Range Organics (DRO)	6100	1000		mg/Kg	100	5/5/2014 12:22:41 PM	12995
Surr: DNOP	0	57.9-140	S	%REC	100	5/5/2014 12:22:41 PM	12995
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	5.0	3.5		mg/Kg	1	5/5/2014 10:21:08 AM	R18376
Surr: BFB	111	74.5-129		%REC	1	5/5/2014 10:21:08 AM	R18376

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

Qualifiers:

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

Page 1 of 3

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405104 06-May-14

Client:

Animas Environmental

Project: CoP Sa	an Juan 32-9 U	Jnit 45	A							
Sample ID MB-12995	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batch	ID: 12 9	995	F	RunNo: 18	8374				
Prep Date: 5/5/2014 Analysis Date: 5/5/2014 SeqNo: 530743 Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 8.2	10	10.00		81.9	57.9	140			
Sample ID LCS-12995	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Drganics	
Client ID: LCSS	Batch	ID: 12 !	995	F	RunNo: 1	8374				
Prep Date: 5/5/2014	Analysis Da	ate: 5/	5/2014	9	SeqNo: 5	30744	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	60.8	145			_
Surr: DNOP	3.9		5.000		78.0	57.9	140			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- P Sample pH greater than 2.
- RLReporting Detection Limit

Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405104

06-May-14

Client:

Animas Environmental

Project:

CoP San Juan 32-9 Unit 45A

Sample ID MB-12990 MK

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: R18376

PQL

Batch ID: R18376

RunNo: 18376

Prep Date:

Analysis Date: 5/5/2014

Result

SeqNo: 531630

Analyte

%REC

Units: mg/Kg

RPDLimit

Qual

Gasoline Range Organics (GRO)

ND 5.0

HighLimit

%RPD

Surr: BFB

Client ID: LCSS

840

1000

SPK value SPK Ref Val

84.2

129

Sample ID LCS-12990 MK

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

LowLimit

74.5

RunNo: 18376

Analyte

Prep Date:

Analysis Date: 5/5/2014

SeqNo: 531635

Units: mg/Kg

Gasoline Range Organics (GRO)

Result PQL

SPK value SPK Ref Val 25.00

%REC 95.3

71.7

134

HighLimit %RPD **RPDLimit** Qual

Surr: BFB

24 930

5.0 1000

92.6

0

74.5

129

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit О
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND Sample pH greater than 2.
- RLReporting Detection Limit

P

Page 3 of 3



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

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number	r: 1405104		RcptNo:	1
Received by/da	te: A 0.	5/03/14				
Logged By:	Anne Thorne	5/3/2014 10:20:00 AN	1	anne Ilm	→	
Completed By:	Anne Thome	5/5/2014		Aone Sh.	_	
Reviewed By:	A-OSIG	-//4		and gra		
Chain of Cus	stody	7-!-		· ····································		
	als intact on sample bottles	?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was th	e sample delivered?		Courier		`	
<u>Log In</u>						
4. Was an att	empt made to cool the sam	ples?	Yes 🗹	No 🗌	na 🗆	
5. Were all sa	mples received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient s	ample volume for indicated	test(s)?	Yes 🗹	No 🗆		
8. Are sample	s (except VOA and ONG) p	roperly preserved?	Yes 🗹	No 🗆		•
9. Was preser	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials h	ave zero headspace?		Yes 🗆	No 🗆	No VOA Vials	
11. Were any s	ample containers received	broken?	Yes	No 🗹	# of preserved	
40 =			🗖		bottles checked	
	work match bottle labels? epancies on chain of custod	v)	Yes 🗹	No 🗆	for pH:	>12 unless noted)
	s correctly identified on Cha		Yes 🗹	No 🗆	Adjusted?	
14. Is it clear w	hat analyses were requeste	d?	Yes 🗹	No 🗆	•	
	lding times able to be met? customer for authorization		Yes 🗹	No 🗆	Checked by:	
(ii no, notily	customer tor authorization.	.) ·				
Special Hand	dling (if applicable)					•
16. Was client	notified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	
Perso	n Notified:	Date				
By W	hom:	Via:	eMail	Phone 🔲 Fax	☐ In Person	
Rega	rding:	the section will be set of the section of the secti				
Client	Instructions:		****			
17. Additional	remarks:					
18. Cooler Inf	22 page 10 (2.2 p. 2 p. 1	Seal Intact Seal No	Seal Date	Signed By		
 ا					1	

	Ser	VI CLE	uronmental	☐ Standard Project Name	Rust	Same d	lay				A	NA	LY		SI	A	BO		TM ATO		r
Mailing	Address	624	6 Comancho	Cop Sa	nJuan	32-9 U	m+45A	ł	49	01 H	awkir	s NE	- Al	buqu	erqu	e, N	M 87	7109			
	farm	neton	NM 87401	Project #:					Te		5-345			Fax							
Phone	#: 505	5 05	04 228)				·		ر می رساطند		X 2. 2		Ana	ysis	Rec	ues					
email c	r Fax#:	 		Project Mana	iger:			=	(YII)	8				13	10				}		
QA/QC	Package: ndard		☐ Level 4 (Full Validation)	D. Wa	tom			TMB's (8021)	(Gas c	S N		CIRACI		PO.S	PCB's						
Accred NEL		□ Othe	er	Sampler: D	Watson	□.No	2 2 2 2 3		+ TPH (Gas only)	RO	18.1)	04.1)		O3,NO2	s / 808;		(V)				or N
	(Type)			Sample Tem	perature:	40		핊	BE	6	od 4		etak	Ž	cide	ব	15				≿
Date	Time	Matrix	Sample Request ID	1	Preservative Type	HEAL	No.	BTEX + MTBE	BTEX + MTBE +	TPH 8015B((GRO)(DRO) MRO)	TPH (Method 418.1)	EDB (Method 504.1)	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)
لاد و	1225	Sail	8C-1	Meotikit	Mult		001			Ϋ́		+	+=		<u> </u>	<u> </u>			-	+	1
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414	1644	In	Watt Waller (1 Sh		05/03/14	1020			 -											



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

May 23, 2014

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

FAX

RE: CoP San Juan 32-9 Unit 45A

OrderNo.: 1405894

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/21/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1405894

Date Reported: 5/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project:

CoP San Juan 32-9 Unit 45A

Collection Date: 5/20/2014 7:15:00 AM

Lab ID:

1405894-001

Received Date: 5/21/2014 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS					Analys	t: BCN
Diesel Range Organics (DRO)	210	100		mg/Kg	10	5/22/2014 9:53:32 AM	13277
Surr: DNOP	0	57.9-140	S	%REC	10	5/22/2014 9:53:32 AM	13277
EPA METHOD 8015D: GASOLINE R	ANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/22/2014 2:38:47 PM	13281
Surr: BFB	84.9	80-120		%REC	1	5/22/2014 2:38:47 PM	13281

Matrix: SOIL

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

Qualifiers:

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

Page 1 of 3

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405894

23-May-14

Client:

Animas Environmental

Project:

CoP San Juan 32-9 Unit 45A

Sample ID LCS-13277	SampT	ype: LC	S	TestCode: EPA Method 8015D: Diesel Range Organics											
Client ID: LCSS	Batcl		RunNo: 18749												
Prep Date: 5/21/2014	Analysis Date: 5/21/2014			SeqNo: 541687			Units: mg/k	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	49	10	50.00	0	98.7	60.8	145								
Surr: DNOP	4.7		5.000		94.5	57.9	140								
Suil, DNOF	4.7		3.000		94.5	37.9	170								
Sample ID MB-13277		Гуре: МЕ		Tes			8015D: Dies	el Range (Organics						
	Samp1	Гуре: МЕ h ID: 13 :	BLK			PA Method		el Range (Organics						
Sample ID MB-13277	Samp1	h ID: 13	BLK 277	F	tCode: El	PA Method 8749		J	Organics	-					
Sample ID MB-13277 Client ID: PBS	Samp1 Batcl	h ID: 13	3LK 277 21/2014	F	tCode: El	PA Method 8749	8015D: Dies	J	Organics RPDLimit	Qual					
Sample ID MB-13277 Client ID: PBS Prep Date: 5/21/2014	Sampī Batci Analysis D	h ID: 13: Date: 5/	3LK 277 21/2014	F	tCode: El RunNo: 1 SeqNo: 5	PA Method 8749 41689	8015D: Dies Units: mg/F	√g		Qual					

Qualifiers:

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

Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405894

23-May-14

Client:

Animas Environmental

Project:	CoP San J	Juan 32-9	Unit 45	A											
Sample ID I	MB-13281	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range										
Client ID:	PBS	Batch	ID: 13	281	RunNo: 18795										
Prep Date:	5/21/2014	Analysis Date: 5/22/2014 SeqN				SeqNo: 54	lo: 543156 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		830		1000		83.0	80	120							
Sample ID LCS-13281 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range															
Client ID:	LCSS	Batch ID: 13281				RunNo: 18795									
Prep Date:	5/21/2014	Analysis D	ate: 5/	22/2014	8	SeqNo: 54	43158	Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range	Organics (GRO)	21	5.0	25.00	0	85.4	71.7	134							
Surr: BFB		910		1000		90.7	80	120							
Sample ID	1405894-001AMS	SampT	уре: М \$	3	Tes	tCode: Ef	PA Method	8015D: Gaso	oline Rang	е					
Client ID:	SC-1	Batch	ID: 13	281	RunNo: 18795										
Prep Date:	5/21/2014	Analysis D	ate: 5/	22/2014	\$	43161	Units: mg/k								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range	Organics (GRO)	23	4.6	23.13	0	99.8	69.5	145							
Surr: BFB		870		925.1		94.1	80	120							
Sample ID	1405894-001AMS) SampT	уре: М\$	SD	Tes	tCode: Ei	PA Method	8015D: Gase	oline Rang	e					
Client ID:	SC-1	Batch	1D: 13	281	F	RunNo: 18795									
Prep Date:	5/21/2014	Analysis D	Analysis Date: 5/22/2014 SeqNo: 543166 Units: mg/Kg						〈 g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range	Organics (GRO)	22	4.6	23.15	0	94.0	69.5	145	5.81	20					

925.9

Qualifiers:

Surr: BFB

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

94.9

80

120

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

Page 3 of 3

0



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1405894 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 5/21/2014 10:00:00 AM Completed By: Lindsay Mangin 5/21/2014 10:51:34 AM Reviewed By: Chain of Custody No 🗍 Not Present 1 Custody seals intact on sample bottles? Yes 🗌 Yes 🔽 No 🗆 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗆 NA 🗌 4. Was an attempt made to cool the samples? Yes 🔽 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗆 NA 🗌 Yes 🔽 Yes 🗸 No 🗌 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for Indicated test(s)? Yes 🔽 No 🗌 No 🗆 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗆 Yes 🗌 9. Was preservative added to bottles? Yes \square No 🗆 No VOA Viais 10.VOA vials have zero headspace? Yes No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: 12. Does paperwork match bottle labels? Yes 🗹 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🔽 No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🛘 14. Is it clear what analyses were requested? No 🗌 Checked by: Yes 🔽 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🔲 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: ☐ eMail ☐ Phone ☐ Fax ☐ In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good Yes

Chain-of-Custody Record		Turn-Around				1.			E	NI W	7 T E	3 ~	SA SI FI	M E	· MIT	ΓAI	ı				
Client: Animas Environmental			Standard □ Rush																		
Services UC		Project Name:				ANALYSIS LABORATORY www.hallenvironmental.com															
Mailing Address 24 Ecomanche		Standard Rush Project Name: CoP Jan Juan 32-9 Unit 45 A Project #:				4901 Hawkins NE - Albuquerque, NM 87109															
Farmingon NM 87401		Project #:	Tel. 505-345-3975 Fax 505-345-4107																		
Phone #: 50 5 564 2281		:								A	ınaly	/sis	Req	ués	\$			Takaka - Masa	ege Fr		
email or Fax#:		Project Mana	ger:	4	1)	nly)	8						,								
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Accredi			LOVOI + (i dil Validadon)				MB's	H.	(g)			.0 SI		0,5	082						
□ NELAP □ Other		Sampler: D Wason Ontice: No. No.				 	Ñ	9.	9.7	827		ျွ	s / 8		₹				고 당		
□ EDD	(Type)	T		Samplement	eralűre: γ. //	0000	區	18	©	8 4	od 5	0 0	etals	ž	ide	A)	Š				چ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	ТРН 8015B (GRO) (ORO) / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
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Proly	1716	Muss	he Waller	alina	Sima	05/21/14 10:00															
V 41	necessar,	samples subr	nitted to Hall Environmental may be subc	ontracted to other ad	credited laboratorie	es. This serves as notice of this	possib	oility. A	ny sut	b-cont	racted	data	will be	clearly	notat	ted on	the an	nalytica) report	L.	