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

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 OIL CONS. DIV DIST. 3

Form C-141 Revised August 8, 2011

DEC 1 2 2014

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

			•									
			Rele	ease Notific	cation	and Co	rrective A	ction				
						OPERA	ΓOR		Initia	al Report	\boxtimes	Final Report
Name of Co	mpany B	urlington Res	sources O	il & Gas Compa	ny	Contact						
	Address 3401 East 30th St, Farmington, NM						No.(505) 599-40)89				
		Peak B 24E				Facility Typ	e: Gas Well					
Surface Owner SF-047017 B Mineral Owner						BLM			API No	.30045255	31	
Surrace Sir			•			TO A CIE						
TT '4 T 44	10 /	L Transaction	I D	,		OF REI		F(V)	Vant I ima	Country		
Unit Letter	Section 13	Township 28N	Range 11W	Feet from the 1680'		South Line · Ith Line	Feet from the 850'	1	Vest Line st Line	County San Juan		
<u> </u>	1			1	-l		-107.94681					
		-		_		•						
			-		TURE	OF REL						
Type of Rele	ase Hyd	rocarbon/Pro	oduced W	ater		Volume of bbl	Release 0.4 b	bl/0.1	Volume I	Recovered	2 ga	l/1.5 gal
Source of Re	lease dur	npline to pro	duction ta	nk		Date and Hour of Occurrence Date and Hour of Discovery						
						Unknown 7/23/2014 8:27 AM						
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required					aquirad	If YES, To	Whom?					
			Yes _		equired							
By Whom?		1 10				Date and F		1 137				
Was a Water	course Rea		Yes 🛛 1	No		If YES, VO	lume Impacting	ine wate	ercourse.			
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*		<u> </u>						
		em and Reme										
MSO discov	ered spill o	n location, w	ell was sh	ut in and spec tr	uck pull	led standing	liquid, the split	line was	replaced.	Hydrovac t	ruck v	vas
contacted to	ріск ир со	ntaminated s	soil. This j	orocess lead CO	P to disc	over a mucn	larger historic s	врии.				
		and Cleanup			** .*	ee .	49 * 9 4* 70	••	4.	121 41 51	1	0 - /3 £
				nd during the re All final sample								
		ched for revi		All Illiai sampi	es were i	reiow regula	iory standards,	iio iui ti	ici icilicui	ation necess	ary. I	ne son
	,											
												l l
I hereby certi	fy that the	information of	iven above	is true and comp	olete to th	ne hest of my	knowledge and i	ınderstar	nd that purs	suant to NM(CD r	iles and
				nd/or file certain								
public health	or the envi	ronment. The	acceptant	ce of a C-141 rep	ort by the	e NMOCD m	arked as "Final R	eport" d	oes not rel	ieve the oper	ator of	liability
				investigate and i								
		iddition, NMC ws and/or regi		otance of a C-141	report de	oes not reliev	e the operator of	responsi	Dility for c	ompiiance w	ith any	otner

* Attach Additional Sheets If Necessary

Title: Field Environmental Specialist

E-mail Address: Lindsay.Dumas@cop.com

Phone: 505-599-4089

Printed Name: Lindsay Dumas

Signature;

Date: 11/25/2014

#NOS 1501342219

Approved by Environmental Specialist:

Approval Date: /

Conditions of Approval:

OIL CONSERVATION DIVISION

Expiration D



Attached

Animas Environmental Services, LC



November 21, 2014

Lindsay Dumas ConocoPhillips San Juan Business Unit Office 214-07 5525 Hwy 64 Farmington, New Mexico 87401

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

RE: Release Assessment and Final Excavation Report **Angel Peak B24E**

San Juan County, New Mexico

Dear Ms. Dumas:

On October 13 and 22, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Angel Peak B24E, located in San Juan County, New Mexico. Historic contamination was discovered during the cleanup of a release (below reportable limits) at the location. The initial release assessment was completed by AES on October 13, 2014, and the final excavation was completed by CoP contractors while AES was at the location on October 22, 2014.

Site Information 1.0

1.1 Location

Site Name – Angel Peak B24E Location – NE¼ SE¼, Section 13, T28N, R11W, San Juan County, New Mexico Well Head Latitude/Longitude - N36.65969 and W107.94906, respectively Release Location Latitude/Longitude - N36.65966 and W107.94888, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, October 2014

604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 280 Durango, CO 970-403-3084

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 0 based on the following factors:

- Depth to Groundwater: Based on elevation, topographic interpretation, and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: A livestock pond is located approximately 1,500 feet to the south-southwest. (0 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of CoP on October 8, 2014, and on October 13, 2014, Emilee Skyles and Dylan Davis of AES completed the release assessment field work. The assessment included collection and field sampling of 33 soil samples from 13 borings in and around the release area. Soil borings were terminated between two and seven feet. Based on the field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On October 22, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of four confirmation soil samples from the walls and base of the excavation. The area of the final excavation (by hydrovac) measured approximately 13 feet by 4 feet by 5 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 33 soil samples from 13 borings (SB-1 through SB-13) and four composite samples (SC-1 through SC-4) were collected during the assessments. All soil samples (except SC-1) were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). One sample (SB-3) collected during the initial assessment and four composite samples (SC-1 through SC-4) collected during the excavation clearance 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 a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On October 13, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.6 ppm in SB-13 up to 1,967 ppm in SB-3. Field TPH concentrations ranged from 21.7 mg/kg in SB-8 up to greater than 25,000 mg/kg in SB-9.

On October 22, 2014, final excavation field screening results for VOCs via OVM ranged from 0.2 ppm in SC-2 up to 0.4 ppm in SC-3. Field TPH concentrations ranged from 21.4 mg/kg in SC-3 up to 31.4 mg/kg in SC-1. 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

Angel Peak B24E Initial Release Assessment and Final Excavation, October 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
NMOCD Acti		<u> </u>	100	5,000
		1	2.0	35.8
	_	2	1.9	NA
SB-1	10/13/14 -	4	1.8	82.5
	-	6	2.2	NA
		Surface	1.5	NA
SB-2	10/13/14	2	1.6	NA
·	-	4	1.9	42.9
		Surface	1.2	NA
	10/13/14 - -	2	1,967	5,730
SB-3		4	106	183
		6	8.6	NA
	10/13/14	3	1.4	NA
SB-4		5	1.6	47.1
		7	1.2	NA
		Surface	1.4	NA
SB-5	10/13/14	2	0.8	31.5
		4	0.9	NA
		Surface	1.1	NA
SB-6	10/13/14	2	1.5	28.7
		4	1.5	NA
CD 7	10/13/14	2	2.0	61.3
SB-7	10/15/14	4	1.5	NA
SB-8	10/13/14	2	0.8	21.7
JD-0	10/15/14	4	0.7	NA
		1	260	15,800
SB-9	10/13/14	4	1,955	>25,000
·		6	4.6	35.8
SB-10	10/13/14	1	1.1	194

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
· NMOCD Action	Level*		100	5,000
	<u> </u>	2	1.0	NA
	•	4	1.1	30.1
SB-11	10/13/14	2	0.8	NA
SB-12	10/13/14	2	1.0	NA
SB-13	10/13/14	2	0.6	NA
SC-1	10/22/14	0 to 5	NA	31.4
SC-2	10/22/14	0 to 5	0.2	24.2
SC-3	10/22/14	0 to 5	0.4	21.4
SC-4	10/22/14	5	0.3	28.5

NA - not analyzed

Laboratory analyses for SB-3 were used to confirm field sampling results of the initial release assessment. Benzene concentrations were reported below laboratory detection limits, and total BTEX concentrations were reported as 3.3 mg/kg. TPH concentrations as GRO/DRO were reported at 1,660 mg/kg.

Laboratory analyses for SC-1 through SC-4 were used to confirm field sampling results from the final excavation. Benzene and total BTEX concentrations in SC-1 through SC-4 were reported below laboratory detection limits in all samples. TPH concentrations as GRO/DRO were reported at 11 mg/kg in SC-1 and below laboratory detection limits in SC-2 through SC-4. Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH Angel Peak B24E Initial Release Assessment and Final Excavation, October 2014

 · · · · · · · · · · · · · · · · · · ·		Sample		Total	·	
Sample ID	Date Sampled	Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMOC	D Action Level	*	10	50	5,0	000
SB-3	10/13/14	2	<0.049	3.3	160	1,500
SC-1	10/22/14	0 to 5	<0.049	<0.245	<4.9	11
SC-2	10/22/14	0 to 5	<0.046	<0.230	<4.6	<10

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

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
SC-3	10/22/14	0 to 5	<0.048	<0.240	<4.8	<9.8
SC-4	10/22/14	5	<0.050	<0.249	<5.0	<9.9

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

3.0 Conclusions and Recommendations

On October 13, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with historic contamination at the Angel Peak B24E. 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 0.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 5,000 mg/kg TPH were reported in SB-3 and SB-9. The highest VOC concentration was reported in SB-3 with 1,967 ppm, and the highest TPH concentration was reported in SB-9 with greater than 25,000 mg/kg.

Laboratory analyses for SB-3 were used to confirm field sampling results. Benzene and total BTEX concentrations were reported below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. TPH concentrations as GRO/DRO were reported at 1,660 mg/kg, below the NMOCD action level of 5,000 mg/kg.

On October 22, 2014, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls and base of the excavation. Field TPH concentrations were below the applicable NMOCD action level of 5,000 mg/kg. Laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO) in SC-1 through SC-4 also below NMOCD action levels.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Angel Peak B24E, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

David J. Reese

Environmental Scientist

Elyshot V MiNelly

Dail g Rem

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, October 2014

Figure 3. Initial Assessment Sample Locations and Results, October 2014

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

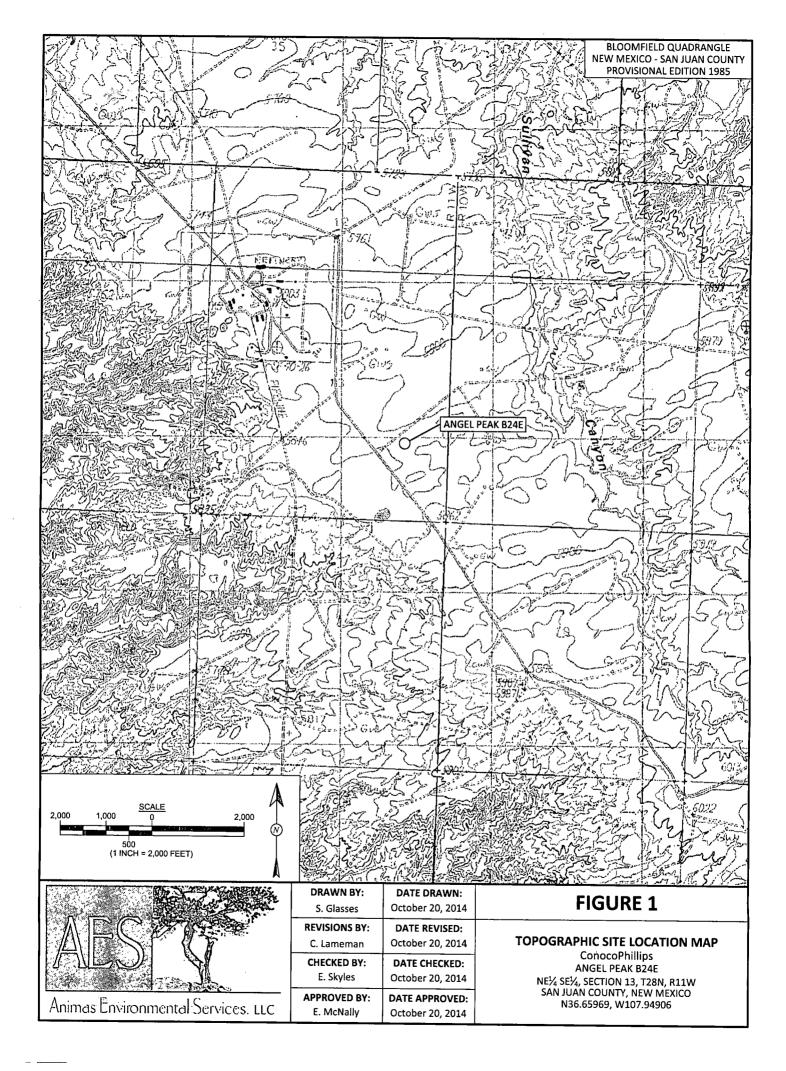
AES Field Sampling Report 101314

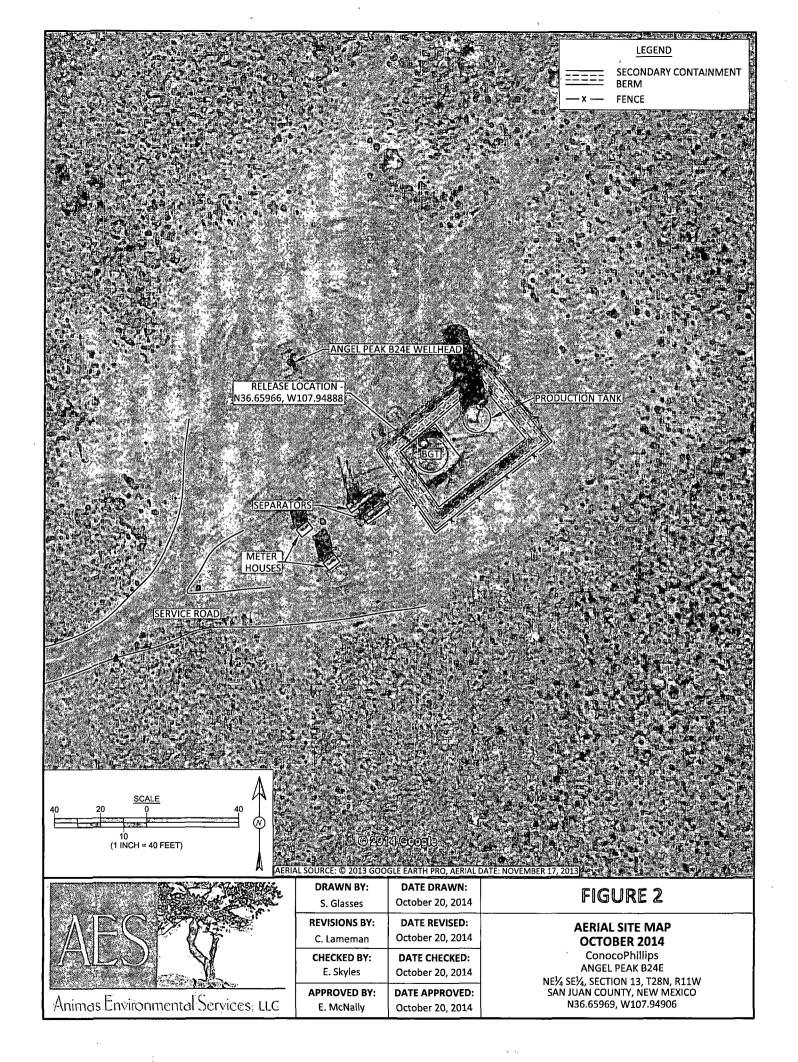
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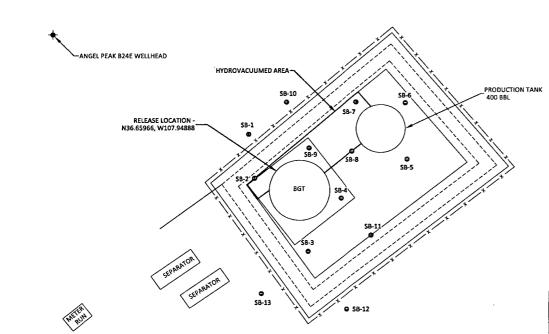
Hall Laboratory Analytical Report 1410600

Hall Laboratory Analytical Report 1410B10

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Projects\ConocoPhillips\Angel Peak B24E\Angel Peak B24E Release and Final Excavation Report 112114.docx







Field Sampling Results									
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)					
^	MOCD ACT	ION LEVEL	100	5,000					
		1	2.0	35.8					
SB-1	10/13/14	2	1.9	NA					
20-1		4	1.8	82.5					
		6	2.2	NA					
		Surface	1.5	NA					
SB-2	10/13/14	2	1.6	NA					
		4	1.9	42.9					
		Surface	1.2	NA					
SB-3	10/13/14	2	1,967	5,730					
30-3	10/13/14	4	106	183					
		6	8.6	NA					
\$B-4	10/13/14	3	1.4	NA					
		5	1.6	47.1					
		7	1.2	NA					
	10/13/14	Surface	1.4	NA					
SB-5		2	0.8	31.5					
		4	0.9	NA					
	10/13/14	Surface	1.1	NA					
SB-6		2	1.5	28.7					
		4	1.5	NA					
	10/12/14	2	2.0	61.3					
SB-7	10/13/14	4	1.5	NA ·					
50.0	10/12/14	2	0.8	21.7					
SB-8	10/13/14	4	0.7	NA					
		1	260	15,800					
SB-9	10/13/14	4	1,955	>25,000					
}		6	4.6	35.8					
	l	1	1.1	194					
SB-10	10/13/14	2	1.0	NA					
1		4	1.1	30.1					
SB-11	10/13/14	2	0.8	NA					
SB-12	10/13/14	2	1.0	NA					
SB-13	10/13/14	2	0.6	NA					
NA - NOT AN	ALYZED								

Laboratory Analytical Results										
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)				
NMOC	D ACTION L	EVEL	10	50	5,0	000				
SB-3	10/13/14	2	<0.049	3.3	160	1,500				

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS OCTOBER 2014 ConocoPhillips ANGEL PEAK 824E NE ½, SE ½, SECTION 13, T28N, R11W SAN JUAN COUNTY, NEW MEXICO N36.65969, W107.94906



Animas Environmental Services, LLC

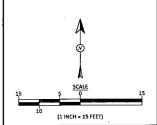
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October 14, 2014
DATE REVISED:
October 14, 2014
DATE CHECKED:
October 14, 2014
DATE APPROVED:
October 14, 2014

LEGEND

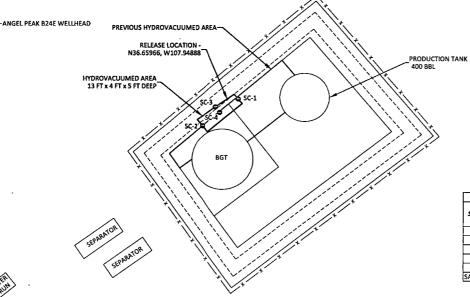
SOIL BORING LOCATIONS

SECONDARY CONTAINMENT BERM

-x - FENCE



SERVICE ROAD



Field Sampling Results										
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)						
٨	MOCD ACT	ION LEVEL	100	5,000						
SC-1	10/22/14	0 to 5	NA	31.4						
SC-2	10/22/14	0 to 5	0.2	24.2						
SC-3	10/22/14	0 to 5	0.4	21.4						
SC-4	10/22/14	5	0.3	28.5						

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	5,000	
SC-1	10/22/14	0 to 5	<0.049	<0.245	<4.9	11
SC-2	10/22/14	0 to 5	<0.046	<0.230	<4.6	<10
SC-3	10/22/14	0 to 5	<0.048	<0.240	<4.8	<9.8
5C-4	10/22/14	5	<0.050	<0.249	<5.0	<9.9

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS OCTOBER 2014 ConocoPhillips ANGEL PEAK B24E

NE ½ SE ½, SECTION 13, T28N, R11W SAN JUAN COUNTY, NEW MEXICO N36.65969, W107.94906



Animas Environmental Services, LLC

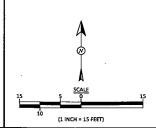
DRAWN BY:	DATE DRAWN:
S. Glasses	October 14, 2014
REVISIONS BY:	DATE REVISED:
C. Lameman	October 14, 2014
CHECKED BY:	DATE CHECKED:
E. Skyles	October 14, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	October 14, 2014

LEGEND

SAMPLE LOCATIONS

==== SECONDARY CONTAINMENT BERM

---x -- FENCE



SERVICE ROAD

Client: ConocoPhillips

Project Location: Angel Peak B24E

Date: 10/13/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials		
SB-1 @ 1'	10/13/2014	10:30	2.0	35.8	11:47	20.0	1	ES		
SB-1 @ 2'	10/13/2014	10:31	1.9		Not	Analyzed for T	PH			
SB-1 @ 4'	10/13/2014	10:34	1.8	82.5	12:16	20.0	1	ES		
SB-1 @ 6'	10/13/2014	10:39	2.2	Not Analyzed for TPH						
SB-2 @ Surface	10/13/2014	11:10	1.5	Not Analyzed for TPH						
SB-2 @ 2'	10/13/2014	11:13	1.6	Not Analyzed for TPH						
SB-2 @ 4'	10/13/2014	11:16	1.9	42.9	12:59	20.0	_ 1	ES		
SB-3 @ Surface	10/13/2014	12:55	1.2		Not	Analyzed for T	PH			
SB-3 @ 2'	10/13/2014	13:00	1,967	5,730	13:27	200	10	ES		
SB-3 @ 4'	10/13/2014	13:03	106	183	13:32	20.0	1	ES		
SB-3 @ 6'	10/13/2014	13:08	8.6	Not Analyzed for TPH						
SB-4 @ 3'	10/13/2014	13:12	1.4		Not	Analyzed for T	PH			
SB-4 @ 5'	10/13/2014	13:16	1.6	47.1	13:36	20.0	1	ES		
SB-4 @ 7'	10/13/2014	13:18	1.2		Not	Analyzed for T	PH			

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials			
SB-5 @ Surface	10/13/2014	13:24	1.4		Not.	Analyzed for T	PH				
SB-5 @ 2'	10/13/2014	13:26	0.8	31.5	14:24	20.0	11	ES			
SB-5 @ 4'	10/13/2014	13:28	0.9		Not.	Analyzed for T	PH				
SB-6 @ Surface	10/13/2014	13:40	1.1		Not	Analyzed for T	PH				
SB-6 @ 2	10/13/2014	13:45	1.5	28.7	14:27	20.0	1	ES			
SB-6 @ 4'	10/13/2014	13:48	1.5		Not.	Analyzed for T	PH				
SB-7 @ 2'	10/13/2014	13:53	2.0	61.3	14:30	20.0	1	ES			
SB-7 @ 4'	10/13/2014	13:55	1.5	Not Analyzed for TPH							
SB-8 @ 2'	10/13/2014	14:01	0.8	21.7	14:33	20.0	_ 1	ES			
SB-8 @ 4'	10/13/2014	14:06	0.7		Not	Analyzed for T	PH				
SB-9 @ 1'	10/13/2014	10:43	260	15,800	12:00	200	10	ES_			
SB-9 @ 4'	10/13/2014	10:55	1,955	>25,000	12:13	200	-10	ES			
SB-9 @ 6'	10/13/2014	14:19	4.6	35.8	14:59	20.0	1	ES			
SB-10 @ 1'	10/13/2014	14:22	1.1	194	15:18	20.0	1	ES			
SB-10 @ 2'	10/13/2014	14:25	1.0		Not.	Analyzed for T	PH				
SB-10 @ 4'	10/13/2014	14:30	1.1	30.1	15:21	20.0	1	ES			
SB-11 @ 2'	10/13/2014	14:40	0.8	Not Analyzed for TPH							
SB-12 @ 2'	10/13/2014	14:48	1.0	Not Analyzed for TPH							
SB-13 @ 2'	10/13/2014	14:53	0.6		Not.	Analyzed for T	PH				

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Suh Shl

AES Field Sampling Report



Client: ConocoPhillips

Project Location: Angel Peak B24E

Date: 10/22/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	10/22/2014	12:55	NA	31.4	15:38	20.0	1	ES
SC-2	10/22/2014	11:20	0.2	24.2	12:35	20.0	1	ES
SC-3	10/22/2014	11:35	0.4	21.4	12:31	20.0	1	ES
SC-4	10/22/2014	11:28	0.3	28.5	12:37	20.0	1	ES

DF

Dilution Factor

NΑ PQL Not Analyzed

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Sinh Shu



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

October 17, 2014

Emilee Skyles
Animas Environmental
604 Pinon Street
Farmington, NM 87401

TEL: (505) 564-2281

FAX

RE: CoP Angel Peak B 24E

OrderNo.: 1410600

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/14/2014 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

Lab Order 1410600

Date Reported: 10/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SB-3 @ 2'

Project: CoP Angel Peak B 24E

Collection Date: 10/13/2014 1:00:00 PM

Lab ID: 1410600-001

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS			•		Analy	st: JME
Diesel Range Organics (DRO)	1500	99		mg/Kg	10	10/15/2014 4:58:56 P	M 15880
Surr: DNOP	0	57.9-140	S	%REC	10	10/15/2014 4:58:56 P	M 15880
EPA METHOD 8015D: GASOLINE R	ANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	160	4.9		mg/Kg	1	10/15/2014 9:36:47 P	M 15883
Surr: BFB	821	80-120	S	%REC	1	10/15/2014 9:36:47 P	M 15883
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.049		mg/Kg	1	10/15/2014 9:36:47 P	M 15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 9:36:47 P	M 15883
Ethylbenzene	0.26	0.049		mg/Kg	1	10/15/2014 9:36:47 P	M 15883
Xylenes, Total	3.0	0.099		mg/Kg	1	10/15/2014 9:36:47 P	M 15883
Surr: 4-Bromofluorobenzene	147	80-120	S	%REC	1	10/15/2014 9:36:47 P	M 15883

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 4

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1410600

17-Oct-14

Client:

Animas Environmental

Project:

CoP Angel Peak B 24E

Sample ID MB-15880 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PBS Batch ID: 15880 RunNo: 21866 Prep Date: 10/14/2014 Analysis Date: 10/14/2014 SeqNo: 643143 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Surr: DNOP 9.6 10.00 96.2 57.9 140

Sample ID LCS-15880	SampT	ype: LC	S	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch	ID: 15 8	380	R	tunNo: 2	1866						
Prep Date: 10/14/2014	14 Analysis Date: 10/14/2014 SeqNo: 643147 Units: mg/Kg					(g	•					
Analyte	Result ·	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.6	130					
Surr: DNOP	4.8		5.000		95.3	57.9	140					

Qualifiers:

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

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410600

17-Oct-14

Client:

Animas Environmental

Project:

CoP Angel Peak B 24E

Result

ND

900

Sample ID MB-15883

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Batch ID: 15883

RunNo: 21927

Prep Date: 10/14/2014

SeqNo: 644456

Units: mg/Kg

Analyte

Analysis Date: 10/15/2014

5.0

PQL

%REC

HighLimit

RPDLimit

Quai

Gasoline Range Organics (GRO) Surr: BFB

1000

25.00

SPK value SPK Ref Val

90.2

80

120

%RPD

Sample ID LCS-15883

LCSS

SampType: LCS Batch ID: 15883 TestCode: EPA Method 8015D: Gasoline Range

RunNo: 21927

LowLimit

Analyte

10/14/2014

Analysis Date: 10/15/2014 Result **PQL** SPK value SPK Ref Val

SeqNo: 644457 %REC LowLimit Units: mg/Kg

HighLimit

RPDLimit Qual

%RPD

Gasoline Range Organics (GRO) Surr: BFB

Client ID:

Prep Date:

26 970 5.0 1000

103 96.6

80

65.8 139 120

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Е Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

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

P Sample pH greater than 2.

RL Reporting Detection Limit Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

1410600

17-Oct-14

Client:

Animas Environmental

Project:

CoP Angel Peak B 24E

Sample ID MB-15883

Result

ND

ND

ND

ND

0.94

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID:

Prep Date:

PBS

10/14/2014

Batch ID: 15883 Analysis Date: 10/15/2014 RunNo: 21927 SeqNo: 644540

%REC LowLimit

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit

Qual

Qual

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

0.050 0.050 0.10

PQL

0.050

1.000

SPK value SPK Ref Val

93.6

80

120

Sample ID LCS-15883

Surr: 4-Bromofluorobenzene

SampType: LCS Batch ID: 15883 TestCode: EPA Method 8021B: Volatiles RunNo: 21927

Prep Date: 10/14/2014

Client ID: LCSS

Analysis Date: 10/15/2014

SeqNo: 644541

Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Benzene	0.96	0.050	1.000	0	96.2	80	120
Toluene	0.95	0.050	1.000	0	95.5	80	120
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120
Xylenes, Total	3.0	0.10	3.000	0	98.6	. 80	120
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S 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. Reporting Detection Limit

Page 4 of 4



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

RcptNo: 1 Client Name: Animas Environmental Work Order Number: 1410600 []M Received by/date: Logged By: Michelle Garcia 10/14/2014 7:00:00 AM 10/14/2014 8:46:22 AM Completed By: Michelle Garcia 101414 Reviewed By: Chain of Custody Yes 🗀 No 🖂 Not Present 1. Custody seals intact on sample bottles? No 🗌 Yes 🗸 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 🗹 NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 Yes 🗸 No 🗌 Sample(s) in proper container(s)? Yes 🔽 7. Sufficient sample volume for indicated test(s)? Yes 🗸 No 📙 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 No 🔽 Yes 🗌 9. Was preservative added to bottles? No VOA Vials 🗹 No 🗀 Yes 🗌 10.VOA vials have zero headspace? Yes 🗆 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 Yes 🔽 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes 🗹 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 14 Is it clear what analyses were requested? No 🗆 Checked by: 15. Were all holding times able to be met? Yes 🔽 (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

			stody Record	Turn-Around	Time:					1.5.4		-	.	/Tr	. ~	RIB			. .
Client:	nimas?	Environn	nental Services	Standard	_ □ Rush												ME! RA		
Mailing	Address	604	Pinon	Project Name	1 Peak B	24E	_	490°	– I Ha	ww wkins	w.ha NE -						'109		
Dhone	imir	gton.	NM 87401 -2281	Project #:					505	-345-3	3975	I	Fax	505-	345-	-4107		<i>- 3</i>	
email o		-264		Project Mana	iger:			الرب وسيسر											
	Package:		☐ Level 4 (Full Validation)	E. 5	Skyles		(8021) FS (8021)	(Gas on	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		SIMS)		PO4,SC	PCB's					
Accredi	AP	□ Othe	r		Yes	Q No See See See See See See See See See Se	野	+ TPH		504.1)	r 8270 S	S	O ₃ ,NO ₂	s / 8082		JA)			Z Z
□ EDD	(Type)	T	· 	Sample Tem	perature:	H Carlotte Market	種		<u>ා</u> .	por por	100	letal	C, N	icide	(A))- <u>i</u> -/			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + №	BTEX + MTBE + TPH (Gas only)	1PH 8015	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)			Air Bubble
10/13/14	13:00	Svi	SB-3 @ 2'	1-402	coal	-001	X												
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Date:	Time: 1837	Relinquish	NIS	Received by:	Last	Date Time 10/3/14/1837	Ren	narks: O#: dere	200	7117 H50	38		100 T	20	T1	nil u	SER!	> no: Garo	ia
Date: 0/ //3/14	Time: 9/0	Relinquish	t Walte	Received by	X	Date Time	~~~~~												vin off
li	f necessary,	samples sub	mitted to Hall Environmental may be subd	contracted to other ac	dedited laboratorie	es. This serves as notice of thi	is possil	ollity. An	y sub-ı	contracte	d data	will be	clearl	y notat	ted on	the an	alytical r	eport.	



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

October 28, 2014

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281

FAX

RE: COP Angel Peak B 24E

OrderNo.: 1410B10

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/23/2014 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

Lab Order 1410B10

Date Reported: 10/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: COP Angel Peak B 24E

Lab ID: 1410B10-001

Client Sample ID: SC-1

Collection Date: 10/22/2014 12:55:00 PM

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS	-	<u>-</u> -		Analyst	BCN
Diesel Range Organics (DRO)	11	9.9	mg/Kg	1	10/24/2014 4:22:45 PM	16062
Surr: DNOP	94.7	63.5-128	%REC	1	10/24/2014 4:22:45 PM	16062
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2014 5:46:53 PM	16059
Surr: BFB	92.2	80-120	%REC	1	10/24/2014 5:46:53 PM	16059
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	10/24/2014 5:46:53 PM	16059
Toluene	ND	0.049	mg/Kg	1	10/24/2014 5:46:53 PM	16059
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2014 5:46:53 PM	16059
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2014 5:46:53 PM	16059
Surr: 4-Bromofluorobenzene	95.3	80-120	%REC	1	10/24/2014 5:46:53 PM	16059

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.
- 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 7

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

Lab Order 1410B10

Date Reported: 10/28/2014

10/24/2014 6:15:25 PM 16059

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COP Angel Peak B 24E

Surr: 4-Bromofluorobenzene

Collection Date: 10/22/2014 11:20:00 AM **Received Date:** 10/23/2014 7:30:00 AM

Lab ID: 1410B10-002

Matrix: SOIL

95.9

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS	·	,		Analyst	:: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 4:45:03 PM	16062
Surr: DNOP	89.3	63.5-128	%REC	1	10/24/2014 4:45:03 PM	16062
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/24/2014 6:15:25 PM	16059
Surr: BFB	93.0	80-120	%REC	1	10/24/2014 6:15:25 PM	16059
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.046	mg/Kg	1	10/24/2014 6:15:25 PM	16059
Toluene	ND	0.046	mg/Kg	1	10/24/2014 6:15:25 PM	16059
Ethylbenzene	ND	0.046	mg/Kg	1	10/24/2014 6:15:25 PM	16059
Xylenes, Total	ND	0.092	mg/Kg	1	10/24/2014 6:15:25 PM	16059

80-120

%REC

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 2 of 7

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

Lab Order 1410B10

Date Reported: 10/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

vironmental Client Sample ID: SC-3

Project: COP Angel Peak B 24E

Collection Date: 10/22/2014 11:35:00 AM Received Date: 10/23/2014 7:30:00 AM

Lab ID: 1410B10-003 **Matrix:** SOIL

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/24/2014 5:07:14 PM	16062
Surr: DNOP	95.9	63.5-128	%REC	1	10/24/2014 5:07:14 PM	16062
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2014 6:44:00 PM	16059
Surr: BFB	92.9	80-120	%REC	1	10/24/2014 6:44:00 PM	16059
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	10/24/2014 6:44:00 PM	16059
Toluene	ND	0.048	mg/Kg	1	10/24/2014 6:44:00 PM	16059
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2014 6:44:00 PM	16059
Xylenes, Total	ND	0.096	mg/Kg	1	10/24/2014 6:44:00 PM	16059
Surr: 4-Bromofluorobenzene	95.1	80-120	%REC	1	10/24/2014 6:44:00 PM	16059

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 RSDImit
- 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 3 of 7

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

Lab Order 1410B10

Date Reported: 10/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: COP Angel Peak B 24E

Collection Date: 10/22/2014 11:28:00 AM

Lab ID: 1410B10-004

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/24/2014 5:29:28 PM	16062
Surr: DNOP	97.0	63.5-128	%REC	1	10/24/2014 5:29:28 PM	16062
EPA METHOD 8015D: GASOLINE RA	NGE.				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2014 7:12:36 PM	16059
Surr: BFB	91.5	80-120	%REC	1	10/24/2014 7:12:36 PM	16059
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.050	mg/Kg	1	10/24/2014 7:12:36 PM	16059
Toluene	ND	0.050	mg/Kg	1	10/24/2014 7:12:36 PM	16059
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2014 7:12:36 PM	16059
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2014 7:12:36 PM	16059
Surr: 4-Bromofluorobenzene	93.3	80-120	%REC	1	10/24/2014 7:12:36 PM	16059

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 4 of 7

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B10

28-Oct-14

Client:

Animas Environmental

Project:

Analyte

COP Angel Peak B 24E

Sample ID MB-16062

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

PBS

Batch ID: 16062

PQL

RunNo: 22124

Prep Date: 10/23/2014

Analysis Date: 10/24/2014

10

SeqNo: 652213

Units: mg/Kg

HighLimit

RPDLimit

Qual

Diesel Range Organics (DRO)

ND

Result

86.3

%RPD

Surr: DNOP

8.6

10.00

128

Sample ID LCS-16062 Client ID: LCSS

Prep Date: 10/23/2014

SampType: LCS

Batch ID: 16062

Analysis Date: 10/24/2014

TestCode: EPA Method 8015D: Diesel Range Organics

RunNo: 22124 SeqNo: 652214

Units: mg/Kg

Diesel Range Organics (DRO)

Result **PQL**

SPK value SPK Ref Val %REC

LowLimit 68.6

HighLimit

RPDLimit

Qual

57

10 50.00 5.000

63.5

LowLimit

63.5

130

%RPD

Surr: DNOP

4.5

89.6

SPK value SPK Ref Val %REC

113

128

Qualifiers:

E

0

- Value exceeds Maximum Contaminant Level.
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit

Value above quantitation range

- R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Sample pH greater than 2.

ND

Reporting Detection Limit RL

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410B10

28-Oct-14

Client:

Animas Environmental

Project:

COP Angel Peak B 24E

Sample ID MB-16059 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 16059 RunNo: 22129 Prep Date: 10/23/2014 Analysis Date: 10/24/2014 SeqNo: 651513 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result **PQL** LowLimit Qual Analyte 5.0 Gasoline Range Organics (GRO) ND Surr: BFB 920 1000 92.3 80 120

Sample ID LCS-16059 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 16059 RunNo: 22129 Prep Date: Analysis Date: 10/24/2014 SeqNo: 651514 10/23/2014 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 27 5.0 25.00 0 108 65.8 139 Surr: BFB 1000 1000 101 80 120

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B10

28-Oct-14

Client:

Animas Environmental

Project:

COP Angel Peak B 24E

Sample ID MB-16059	SampT	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batcl	h ID: 16	059	R	RunNo: 2	2129						
Prep Date: 10/23/2014	Analysis E	Date: 10	0/24/2014	S	SeqNo: 6	No: 651544 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.050										
Toluene	ND	0.050			•	•						
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	80	120					

Sample ID LCS-16059	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	n ID: 16	059	F	RunNo: 2						
Prep Date: 10/23/2014	Analysis Date: 10/24/2014			8	SeqNo: 6	51545	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.92	0.050	1.000	0	92.3	80	120				
Toluene	0.92	0.050	1.000	0	91.5	. 80	120				
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120				
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120				

Qualifiers:

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

e Reporting Limit Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environm	nental Work Order Numb	per: 1410B10		RcptNo:	1
Received by/date: A7	10/23/14		· .		
Logged By: Anne Thorne	AM	Anne Show			
Completed By: Anne Thorne	•				
Reviewed By:	10/23/14		01414 91		
Chain of Custody					
1. Custody seals intact on sample	bottles?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered	?	Courier			
Log In					
4. Was an attempt made to cool	he samples?	Yes 🗹	No 🗀	NA 🗌	
5. Were all samples received at a	temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA \square	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		•
7. Sufficient sample volume for in	dicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and	Yes 🗹	No 🗌			
9. Was preservative added to bot	des?	Yes	No 🔽	na 🗀	·
10.VOA vials have zero headspac	e?	Yes 🗌	No 🗆	No VOA Vials	
11. Were any sample containers re	eceived broken?	Yes 🗌	No 🗹	# of preserved	
40			\Box	bottles checked	
12. Does paperwork match bottle in (Note discrepancies on chain of		Yes 🗹	No 🗔	for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly identified		Yes 🗹	No 🗆	Adjusted? _	
14. Is it clear what analyses were r	equested?	Yes 🗹	No 🗀		
15. Were all holding times able to (If no, notify customer for author)	Yes 🗹	No 🗌	Checked by:		
(in the final in the first terms of the first terms	<u>,</u>				
Special Handling (if applica	<u>able)</u>				
16. Was client notified of all discre	pancies with this order?	Yes 🗌	No 🗆	NA 🗹	-
Person Notified:	Date	•			
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:		The second of the second		and the second second second	•
Client Instructions:					
17. Additional remarks:					_
18. Cooler Information	e e e e e	1. 5		1	
Cooler No Temp °C C	ondition Seal Intact Seal No	Signed By			
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Chain-of-Custody Record		i urn-Around	nme:			١.			_	IA			NIV	/ T IE	20	NE	ME	N7	FAI			
Client:	nimas	Environ	mental Services, LLC	Standard	□ Rush						A	N.	AL	YS	SIS	\$ L	A	30		AT(
Mailing Address: / Th		Www.hallenvironmental.com																				
Mailing Address: 604 PINON		Project #:																				
-Farmington, NM 87401		Froject #.				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request																
Phone #: 508-564-228)		<u> </u>						_			A	naiy	_	Keq	ues			:				
email or Fax#:		Project Mana	-			5	l lo	1					304)	ွှတ								
QA/QC Package: Standard □ Level 4 (Full Validation)		L	lkyles			FMB's (8021)	TPH (Gas only)	Ø Ø	,		SIMS)		,PO ₄ ,S	2 PCB's								
Accreditation			. Shyles		. (1	퓝	R	÷	€	8270		NO	8082						2		
□ NELAP □ Other		On leen				+	+	뗂	418.1)	504	or 82	<u>s</u>	Ō,	-		8				ঠ		
□ EDD	(Type) _	1		Samplestern	oerature I	20		7	186	9	g	ğ	10	leta	C, C	icide	(AC	Ϋ́				S C
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	ii UK	ALNO.	BTEX +	BTEX + MTBE	TPH 8015B (GRO) (DRO)/ MPS)	TPH (Method	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
10/22/14	12:55	8016	5(-1	1-402.	cool		-001	X		X												
10/22/14		Soil	Sc-Z	1-402.	cool		-02	X		X												丁
0/22/14	11:35	Soil	SC-3	1-400.	cool		-603	X		X												
	11:28	Sori	SC-Y	1-40E.	Cool		-004	X		X										$\overline{}$	$\overline{+}$	
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Date:	Time: 1857	Relinguish	LEGIL	Received by: Musti	Wast	Date 16/22	Time /14 /857	Remarks: Poil to Conoco Philips 7 Wo # 20415638 opedereday: Linesay Dum							nes							
Date! Time: Refinity ished by:			Received by:	mil	Date /	Time 114 0730	AREA: 22 SUPER: Ervin Wyckoff USER: KGARGA															