

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

Amended

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact: Ashley Maxwell – Lisa Hunter
Address: 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-326-9786
Facility Name: San Juan 28-6 Unit 148	Facility Type: Gas Well

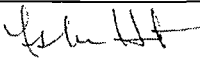
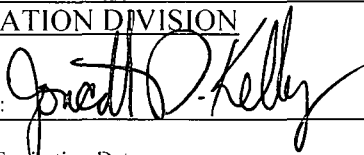
Surface Owner: Federal	Mineral Owner: Federal	API No.: 3003920307 Lease # SF-079050-C
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	28	28N	06W	800'	North	1460'	East	Rio Arriba

Latitude 36.63731 N Longitude -107.46788 W

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 13 BBLs	Volume Recovered – 0-
Source of Release: Fiberglass Pit	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery 11/28/12 @ 1:00PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse:	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A hole in the fiberglass pit caused the release of 13 BBLs produced water. The fluid was contained within the berm with 0 BBL recovered.		
Describe Area Affected and Cleanup Action Taken.* Fiberglass pit will be replaced. ConocoPhillips Company will assess the soil to determine further action, if needed. Confirmation sampling was completed on March 6, 2013 by third-party environmental, and analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 8/1/2013	Expiration Date:
E-mail Address: Lisa.Hunter@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: June 21, 2013 Phone: 505-326-9786		

* Attach Additional Sheets If Necessary

nJK 1321356764



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

May 7, 2013

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

**RE: Produced Water Release Report
San Juan 28-6 Unit 148
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the 13 barrel (bbl) produced water released from a fiberglass tank at the ConocoPhillips (CoP) San Juan 28-6 Unit 148, located in Rio Arriba County, New Mexico.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-6 Unit 148

Legal Description – NW¼ NE¼, Section 28, T28N, R6W, Rio Arriba County, New Mexico

Well Latitude/Longitude – N36.63734 and W107.46845, 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 June 1991 for the San Juan 28-6 #148 well reported the depth to groundwater as 170 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 500 feet south of the location and eventually discharges to Encierro Canyon. Based on this information, the location was assessed a ranking score of 10 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 0.047 mg/kg and as 0.21 mg/kg, respectively. TPH as GRO was reported as less than 4.7 mg/kg and TPH as DRO was reported as 14 mg/kg. The laboratory chloride concentration was reported at 250 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
San Juan 28-6 Unit 148 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)
NMOCD Action Level*			10	50	1,000*		--
SC-1	3/6/13	0.25	<0.047	0.21	<4.7	14	250

*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 San Juan 28-6 Unit 148. Action levels for releases are determined by NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking score of 10. 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 250 mg/kg.

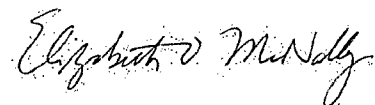
Based on laboratory analytical results, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels. No further work is recommended at the San Juan 28-6 Unit 148 produced water release location.

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

Sincerely,



Kelsey Christiansen
Environmental Scientist



Elizabeth McNally, P.E.

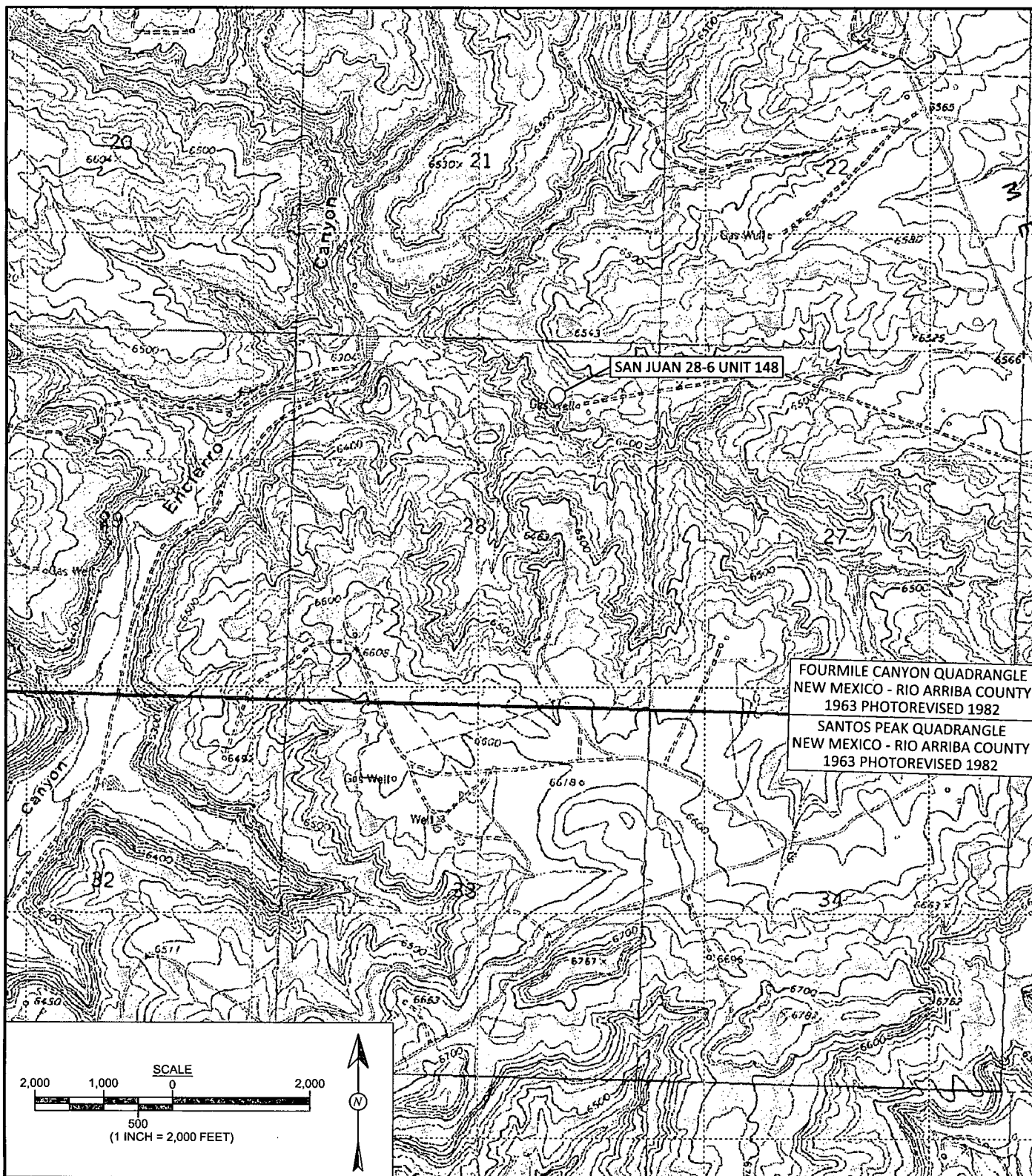
Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

Hall Analytical Report 1303332

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 28-6 #148\SJ 28-6 #148 Produced Water
Release Report 050713.docx



FOURMILE CANYON QUADRANGLE
NEW MEXICO - RIO ARriba COUNTY
1963 PHOTOREVISED 1982

SANTOS PEAK QUADRANGLE
NEW MEXICO - RIO ARriba COUNTY
1963 PHOTOREVISED 1982

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
SAN JUAN 28-6 UNIT 148
RIO ARriba COUNTY, NEW MEXICO
NW¼ NE¼, SECTION 28, T28N, R6W
N36.63734, W107.46845

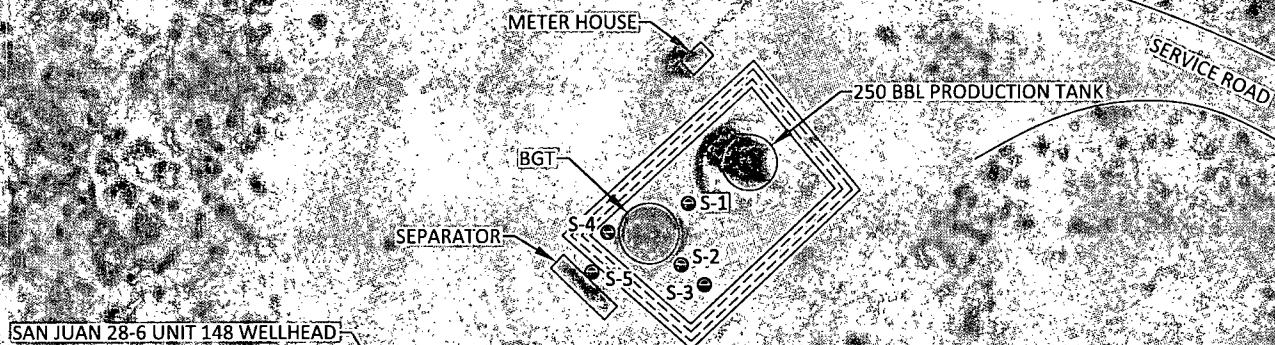


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: March 7, 2013
REVISIONS BY: C. Lameman	DATE REVISED: March 7, 2013
CHECKED BY: D. Watson	DATE CHECKED: May 7, 2013
APPROVED BY: E. McNally	DATE APPROVED: May 7, 2013

LEGEND

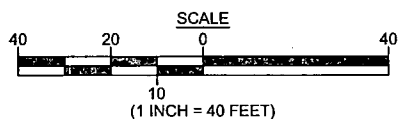
- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM



Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000		--
SC-1	3/6/13	Surface	<0.47	0.21	<4.7	14	250

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5.
SAMPLE WAS ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0.



AERIAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE



Animas Environmental Services, LLC

DRAWN BY:

C. Lameman

DATE DRAWN:

March 7, 2013

REVISIONS BY:

C. Lameman

DATE REVISED:

March 7, 2013

CHECKED BY:

D. Watson

DATE CHECKED:

May 7, 2013

APPROVED BY:

E. McNally

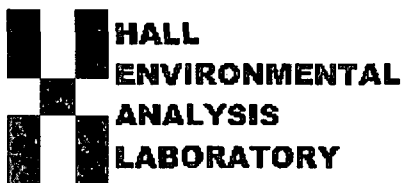
DATE APPROVED:

May 7, 2013

FIGURE 2

AERIAL SITE MAP SAMPLE LOCATIONS AND RESULTS MARCH 2013

ConocoPhillips
SAN JUAN 28-6 UNIT 148
RIO ARriba COUNTY, NEW MEXICO
NW¼ NE¼, SECTION 28, T28N, R6W
N36.63734, W107.46845



*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 San Juan 28-6 Unit 148

OrderNo.: 1303332

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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1303332

Date Reported: 3/13/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: CoP San Juan 28-6 Unit 148

Collection Date: 3/6/2013 10:20:00 AM

Lab ID: 1303332-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	14	10		mg/Kg	1	3/12/2013 12:17:59 PM
Surr: DNOP	102	72.4-120		%REC	1	3/12/2013 12:17:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2013 2:49:47 PM
Surr: BFB	121	84-116	S	%REC	1	3/8/2013 2:49:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	3/8/2013 2:49:47 PM
Toluene	ND	0.047		mg/Kg	1	3/8/2013 2:49:47 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2013 2:49:47 PM
Xylenes, Total	0.21	0.094		mg/Kg	1	3/8/2013 2:49:47 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	3/8/2013 2:49:47 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	250	7.5		mg/Kg	5	3/12/2013 2:19:38 PM

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303332

13-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-6 Unit 148

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			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-6444	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	6444	RunNo:	9153					
Prep Date:	3/12/2013	Analysis Date:	3/12/2013	SeqNo:	260380	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Sample ID	1303394-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6444	RunNo:	9153					
Prep Date:	3/12/2013	Analysis Date:	3/12/2013	SeqNo:	260382	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	40	7.5	15.00	27.88	80.5	64.4	117			

Sample ID	1303394-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6444	RunNo:	9153					
Prep Date:	3/12/2013	Analysis Date:	3/12/2013	SeqNo:	260383	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	42	7.5	15.00	27.88	94.9	64.4	117	5.27	20	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303332

13-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-6 Unit 148

Sample ID	1303336-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6403	RunNo:	9099					
Prep Date:	3/8/2013	Analysis Date:	3/12/2013	SeqNo:	259283	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		4.873		102	72.4	120			

Sample ID	1303336-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6403	RunNo:	9099					
Prep Date:	3/8/2013	Analysis Date:	3/12/2013	SeqNo:	259284	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.176		106	72.4	120	0	0	

Sample ID	MB-6400	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6400	RunNo:	9099					
Prep Date:	3/8/2013	Analysis Date:	3/12/2013	SeqNo:	259673	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	10		10.00		102	72.4	120			

Sample ID	LCS-6400	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6400	RunNo:	9099					
Prep Date:	3/8/2013	Analysis Date:	3/12/2013	SeqNo:	259675	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	47.4	122			
Surr: DNOP	5.1		5.000		101	72.4	120			

Sample ID	1303331-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6400	RunNo:	9099					
Prep Date:	3/8/2013	Analysis Date:	3/12/2013	SeqNo:	259695	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	51.98	0	92.8	12.6	148			
Surr: DNOP	5.6		5.198		108	72.4	120			

Sample ID	1303331-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6400	RunNo:	9099					
Prep Date:	3/8/2013	Analysis Date:	3/12/2013	SeqNo:	259748	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	47.80	0	86.3	12.6	148	15.6	22.5	
Surr: DNOP	5.0		4.780		105	72.4	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303332

13-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-6 Unit 148

Sample ID	MB-6447	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6447	RunNo:	9140					
Prep Date:	3/12/2013	Analysis Date:	3/13/2013	SeqNo:	260075	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	72.4	120			

Sample ID	LCS-6447	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6447	RunNo:	9140					
Prep Date:	3/12/2013	Analysis Date:	3/13/2013	SeqNo:	260076	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	72.4	120			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303332

13-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-6 Unit 148

Sample ID	MB-6381	SampType	MBLK	TestCode	EPA Method 8015B: Gasoline Range						
Client ID	PBS	Batch ID	6381	RunNo	9092						
Prep Date	3/7/2013	Analysis Date	3/8/2013	SeqNo	258935	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	SampType	LCS	TestCode	EPA Method 8015B: Gasoline Range						
Client ID	LCSS	Batch ID	6381	RunNo	9092						
Prep Date	3/7/2013	Analysis Date	3/8/2013	SeqNo	258939	Units: mg/Kg					
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				

Sample ID	1303284-002AMS	SampType	MS	TestCode	EPA Method 8015B: Gasoline Range						
Client ID	BatchQC	Batch ID	6381	RunNo	9092						
Prep Date	3/7/2013	Analysis Date	3/8/2013	SeqNo	258961	Units: mg/Kg					
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	1303284-002AMSD	SampType	MSD	TestCode	EPA Method 8015B: Gasoline Range						
Client ID	BatchQC	Batch ID	6381	RunNo	9092						
Prep Date	3/7/2013	Analysis Date	3/8/2013	SeqNo	258962	Units: mg/Kg					
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	
Surr: BFB	1200		969.0		125	84	116	0	0	S	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303332

13-Mar-13

Client: Animas Environmental Services

Project: CoP San Juan 28-6 Unit 148

Sample ID	MB-6381		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	6381		RunNo:	9092			
Prep Date:	3/7/2013		Analysis Date:	3/8/2013		SeqNo:	258989		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	1.1		1.000		108	80	120			

Sample ID	LCS-6381		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	6381		RunNo:	9092			
Prep Date:	3/7/2013		Analysis Date:	3/8/2013		SeqNo:	258993		Units: mg/Kg	
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-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID	1303284-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	6381		RunNo:	9092			
Prep Date:	3/7/2013		Analysis Date:	3/8/2013		SeqNo:	259004		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.047	0.9416	0	93.1	67.2	113			
Toluene	0.89	0.047	0.9416	0	94.1	62.1	116			
Ethylbenzene	0.90	0.047	0.9416	0	96.1	67.9	127			
Xylenes, Total	2.7	0.094	2.825	0	95.4	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9416		117	80	120			

Sample ID	1303284-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	6381		RunNo:	9092			
Prep Date:	3/7/2013		Analysis Date:	3/8/2013		SeqNo:	259006		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.047	0.9398	0	94.9	67.2	113	1.66	14.3	
Toluene	0.89	0.047	0.9398	0	95.1	62.1	116	0.772	15.9	
Ethylbenzene	0.91	0.047	0.9398	0	96.9	67.9	127	0.640	14.4	
Xylenes, Total	2.8	0.094	2.820	0	98.4	60.6	134	2.94	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9398		116	80	120	0	0	

Qualifiers:

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

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

Sample Log-In Check List

Client Name:	Animas Environmental		Work Order Number:	1303332
Received by/date:	AG 03/07/13			
Logged By:	Michelle Garcia	3/7/2013 9:56:00 AM	Michelle Garcia	
Completed By:	Michelle Garcia	3/7/2013 3:03:19 PM	Michelle Garcia	
Reviewed By:				

Chain of Custody

- Were seals intact? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

- Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

- Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Client: Animas Environmental
Services
Mailing Address: 624 E Comanche
Farmington NM 87401
Phone #: 505 564 2281
email or Fax#: _____
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

☒ **Standard** ☐ **Rush**

CoP San Juan 28-6 hmt 148

Project #:

Project Manager:

D Watson
Sampler: D Watson

On Ice: ☒ Yes ☐ No

Sample Temperature	2
--------------------	---

Container Type and #	Material	Quantity	Remarks
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
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17
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96
97
98
99
100

Preservative
Type

HEAL No.

1303332

$$\text{BTEx} + \text{WATER} + \text{SEEDS (8021)}$$

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRQ (DROY MRO))

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

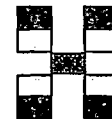
8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

300.0 Chlorides

Air Bubbles (Y or N)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date:	Time:	Relinquished by:
3/10/13	1731	Daniel T. Watson

Date:	Time:	Relinquished by:
3/6/13	1757	Christina W...

Received by:	Date	Time
<i>Mentor Librarian</i>	<i>3/6/13</i>	<i>1731</i>

Received by: [Signature] Date 03/07/13 Time 095

Remarks: Bill to ConocoPhillips
WO: 9329528 User Approver: LINDA J
area: 24 Requested by: Ashley
Supervisor: Bobby Smeadman Maxwell

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.