

**3R-1024**

**Release Report/ General  
Correspondence**

**Elm Ridge Pipeline**

**Date: 2015**

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

RECEIVED

MAR 12 2015

NMOCD

State of New Mexico  
Minerals and Natural Resources  
Conservation Division  
20 South St. Francis Dr.  
Santa Fe, NM 87505

COPY

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

OPERATOR

Initial Report  Final Report

Name of Company: Elm Ridge Exploration CO d.b.a Beeline Gas Systems	Contact: Cory Smith
Address: 2001 E. Blanco Blvd Bloomfield, NM 87413	Telephone No. 505-486-5955
Facility Name: Canyon Compressor Station	Facility Type: Pigging/Separator facility

Surface Owner BLM	Mineral Owner N/A	API No. 30-039-24065
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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
D	1	23N	7W	650	North	1,050	West	Rio Arriba

Latitude N 36° 15.5' Longitude W 107° 32.0'

NATURE OF RELEASE

Type of Release Crude Oil/Condensate	Volume of Release 380 BBL	Volume Recovered 380 BBL
Source of Release Tank Overflow	Date and Hour of Occurrence Oct 24 Early Morning	Date and Hour of Discovery Oct 24 1245
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly	
By Whom? Cory Smith	Date and Hour October 24 2013 at 1337	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3  
NOV 14 2013

If a Watercourse was Impacted, Describe Fully.\*

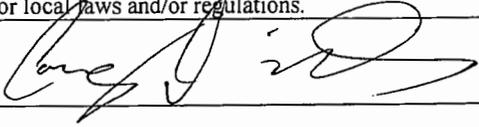
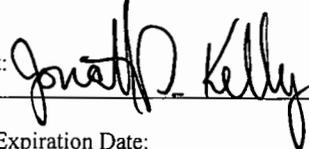
Describe Cause of Problem and Remedial Action Taken.\*

Separator receiver a large unexpected slug of Crude Oil which dumped to the water pit and overflowed.  
On October 28<sup>th</sup> Another Slug was received over the weekend and was dumped into the Oil Storage tank. Because the previous release put us at our max capacity and we were rejected to sell oil based on water content our tank was near capacity and it too had an overflow into a fully lined berm. The spill was contained and cleaned up and put back in the storage tank once it had room.

Describe Area Affected and Cleanup Action Taken.\*

The water pit tank over flowed with crude oil and filled the volume between the pit and containment ring. Crude oil overflowed the rain berm on the pit and ran approximately 30 yards to the NW and pooled next to another tank berm. The free standing liquids were cleaned up with a water truck and put into oil storage at the facility. The containment ring and pit liners were cleaned using a power washer and then put back into operation. Excavation of contaminated soil was removed to an offsite remediation facility at envirotech landfill #2.

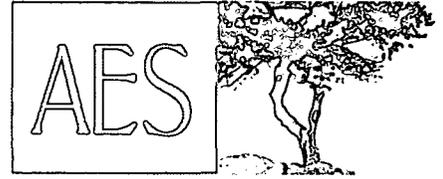
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Cory Smith	Approved by Environmental Specialist: 	
Title: Regulatory Compliance	Approval Date: 3/19/2015	Expiration Date:
E-mail Address: csmith@elmridge.ent	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/14/13	Phone: 505-634-1144	

\* Attach Additional Sheets If Necessary

NJK 150 10055970

111



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado  
970-403-3084

November 20, 2013

Cory Smith  
Beeline Gas Systems  
2001 E. Blanco Blvd  
Bloomfield, New Mexico 87413

*Via electronic mail to:*  
[CSmith@elmridge.net](mailto:CSmith@elmridge.net)

**OIL CONS. DIV DIST. 3**

**NOV 22 2013**

**RE: Final Excavation Report  
Canyon Compressor Station  
NW¼ NW¼, Section 1, T23N, R7W  
Rio Arriba County, New Mexico**

Dear Mr. Smith:

On October 27 and 28, 2013, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits associated with a release at the Elm Ridge Exploration Company Canyon Compressor Station, located in Rio Arriba County, New Mexico. The total release consisted of approximately 380 barrels (bbls) of crude oil and condensate released partially from the below grade tank (BGT) on October 24, 2013, and partially from the production tank on October 28, 2013. The partial release from the BGT on October 24, 2013, filled the BGT and containment, overflowed the earthen berm, and migrated across the surface to the northwest where it pooled next to the berm around the production tanks. The other portion of the release, which occurred on October 28, 2013, overflowed from the 300 bbl production tank into the lined containment area. The final excavation was completed by Beeline Gas System (Beeline) contractors while AES was on location on October 27 and 28, 2013.

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## 1.0 Site Information

### 1.1 Location

Location – NW¼ NW¼, Section 1, T23N, R7W, Rio Arriba County, New Mexico  
Release Location Latitude/Longitude – N36.25896 and W107.53274, respectively  
Land Jurisdiction – Bureau of Land Management (BLM)  
Figure 1. Topographic Site Location Map  
Figure 2. Aerial Site Map

## 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 location was given a ranking score of 10 based on the following factors:

- **Depth to Groundwater:** A C-144 dated September 2008 for the Thirlaway #1, located immediately to the west of the release location, reports depth to groundwater as 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:** The release location is between two tributary washes in Johnson Canyon. One tributary is approximately 200 feet to the north, and the other tributary is approximately 245 feet to the southeast from the furthest extents of the release path. (10 points)

## 1.3 Assessment and Mitigation

On October 24, 2013, Heather Woods of AES visited the location with Cory Smith of Beeline following the release from the BGT. Beeline contractors utilized a pump truck to collect free standing liquids, which were transferred to the production tank on location.

The initial excavation of impacted soils was completed on October 27, 2013. Based on initial field screening of composite soil samples, AES provided excavation oversight and also collected additional composite soil samples from the walls and base of the BGT excavation and release path excavation on October 28, 2013. Free standing liquids and water used to clean the tank and liner from the overflow of the production tank on October 28, 2013, were also pumped from the lined containment area and returned to the production tank.

The area of the final BGT excavation was approximately 774 ft<sup>2</sup> by 15 feet in depth, and the area of the final release path excavation was approximately 1,460 ft<sup>2</sup> by 0.5 to 2 feet in depth. The excavation was backfilled with clean, imported material, and the impacted soil was transported to the Envirotech Landfarm, south of Bloomfield, New Mexico, for proper disposal. Waste manifests are attached. Sample locations and final excavation extents are shown on Figure 3, and a photograph log is also attached.

## 2.0 Soil Sampling

A total of 13 composite soil samples were collected during the assessment on October 27 and 28, 2013. Three soil samples (S-1 through S-3) were collected during the assessment for excavation guidance; four confirmation soil samples (SC-1 through SC-4) were collected from the release path excavation; and six confirmation soil samples (SC-5 through SC-10) were collected from the BGT excavation. All soil samples were field screened for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Two composite samples, BGT Excavation Composite (equal portions of SC-5 through SC-10) and Release Path Excavation Composite (equal portions of SC-1 through SC-4), were submitted for confirmation laboratory analysis.

### 2.1 Field Screening

#### 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 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. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chlorides per USEPA Method 300.0.

### 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results for VOCs via OVM showed concentrations ranging from 2.5 ppm in SC-8 up to 1,681 ppm in S-3. Field TPH concentrations ranged from 37.4 mg/kg in SC-9 up to 1,580 mg/kg in S-3. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Table 1. Field Screening VOCs and TPH Results  
 Canyon Compressor Station Final Excavation, October 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
		<i>NMOCD Action Level*</i>	100	1,000
S-1	10/27/13	0.5 to 1	<b>274</b>	797
S-2	10/27/13	0.5	<b>231</b>	778
S-3	10/27/13	11	<b>1,681</b>	<b>1,580</b>
SC-1	10/27/13	1 to 1.5	6.8	145
SC-2	10/27/13	1.5 to 2	64.7	52.0
SC-3	10/28/13	1.5 to 2	3.3	70.8
SC-4	10/28/13	0.5 to 1	2.8	62.4
SC-5	10/28/13	1 to 15	2.6	63.6
SC-6	10/28/13	1 to 15	4.1	63.6
SC-7	10/28/13	15	3.0	73.1
SC-8	10/28/13	1 to 15	2.5	115
SC-9	10/28/13	1 to 15	3.0	37.4
SC-10	10/28/13	1 to 15	2.9	105

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

Laboratory analytical results were used to confirm field screening results from the release assessment. Benzene, total BTEX, and chloride concentrations were reported below laboratory detection limits of 0.050 mg/kg, 0.25 mg/kg, and 30 mg/kg, respectively. Results are presented in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX and Chlorides  
 Canyon Compressor Station Final Excavation, October 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
<b>NMOCD Action Level*</b>			<b>10</b>	<b>50</b>	<b>--</b>
BGT					
Excavation Composite	10/28/13	1 to 15	<0.050	<0.25	<30
Release Path					
Excavation Composite	10/28/13	1 to 2	<0.050	<0.25	<30

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

### 3.0 Conclusions and Recommendations

On October 27 and 28, 2013, AES conducted a release assessment of the excavation area associated with a crude oil and condensate release at the Canyon Compressor Station. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

Field screening results for excavation guidance samples S-1 through S-3 reported VOC concentrations above the NMOCD action level of 100 ppm VOCs, with the highest VOC concentration reported in S-3 with 1,681 ppm. Field TPH concentrations in S-1 and S-2 were below the NMOCD action level of 1,000 mg/kg; however, TPH concentrations exceeded the NMOCD action level in S-3 with 1,580 mg/kg. Following additional excavation of the areas associated with S-1 through S-3 on October 28, 2013, field screening results showed VOC and TPH concentrations in SC-1 through SC-10 below the NMOCD action levels 100 ppm VOCs and 100 mg/kg TPH for all the excavation confirmation samples. Laboratory analytical results for the BGT Excavation Composite and Release Path Excavation Composite samples were used to confirm field screening results. Benzene and total BTEX concentrations were reported below the NMOCD action levels of 10 mg/kg benzene and 50 mg/kg total BTEX for each sample. Chloride concentrations were below the laboratory detection limit of 30 mg/kg in each sample.

Based on the final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the Canyon Compressor Station, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final

sidewalls and the base of the excavation, as well as for the release path. No further work is recommended at the Canyon Compressor Station release area.

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

Sincerely,



Heather M. Woods, P.G.  
Project Manager



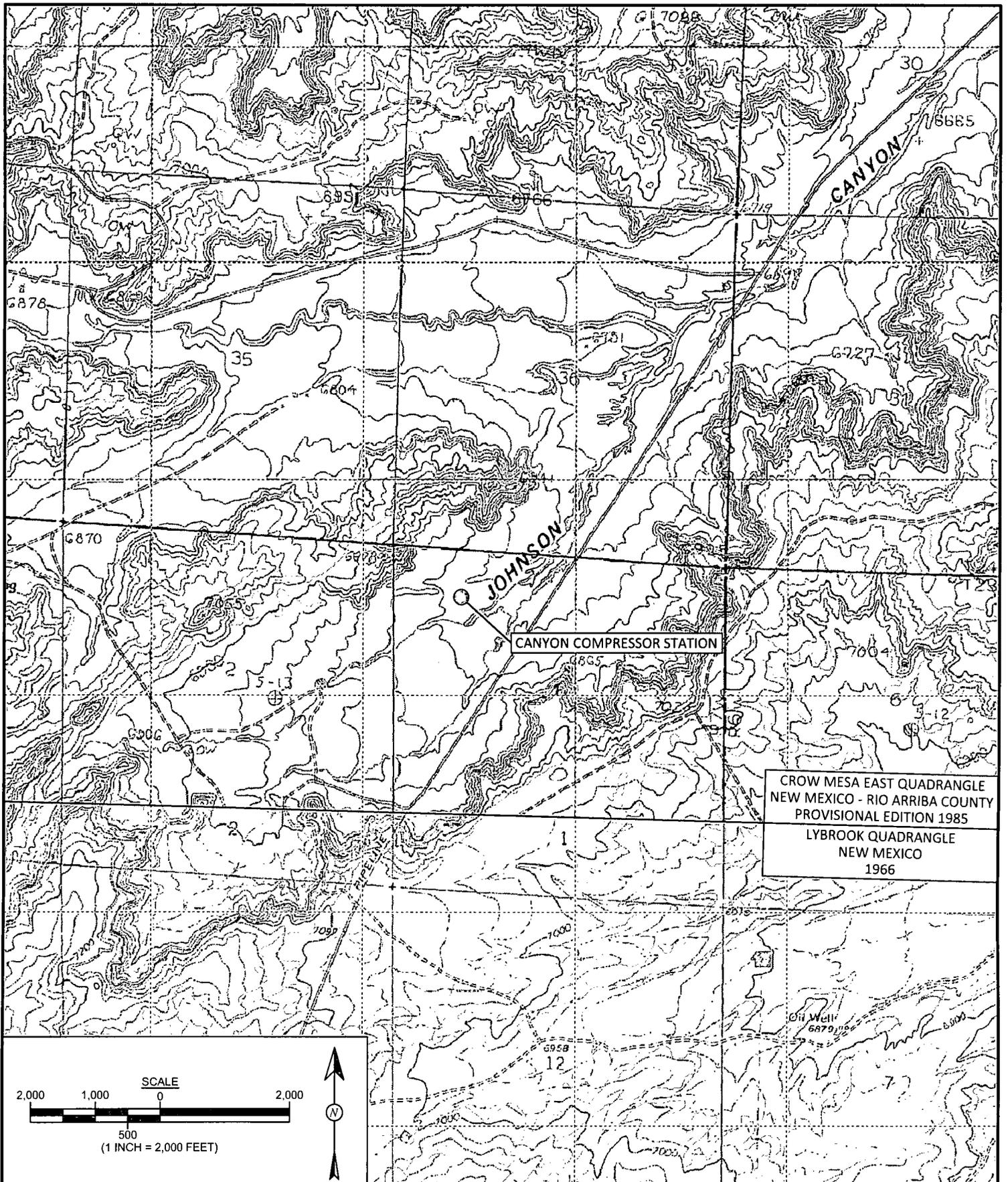
Elizabeth McNally, PE

Attachments:

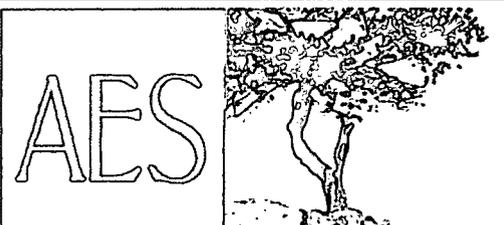
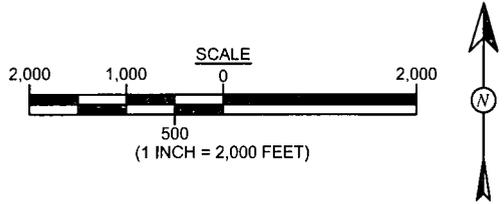
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, October 2013
- Figure 3. Excavation Sample Locations and Results, October 2013
- Disposal Manifests (Envirotech 44984, 44986, 44991, 45005, 45006, 45008, 45013 through 45016, and 45023 through 45026)
- Photograph Log
- AES Field Screening Report 102813
- Hall Laboratory Analytical Report 1310D94

Cc: Brandon Powell  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, NM 87410

Shari Ketcham  
Via email with delivery confirmation receipt to: [sketcham@blm.gov](mailto:sketcham@blm.gov)  
Bureau of Land Management  
6251 College Blvd., Suite A  
Farmington, NM 87401



CROW MESA EAST QUADRANGLE  
 NEW MEXICO - RIO ARRIBA COUNTY  
 PROVISIONAL EDITION 1985  
 LYBROOK QUADRANGLE  
 NEW MEXICO  
 1966



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> November 13, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 13, 2013
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> November 13, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> November 13, 2013

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
 BEELINE GAS SYSTEMS  
 CANYON COMPRESSOR STATION  
 NW¼ NW¼, SECTION 1, T23N, R7W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.25896, W107.53274



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> November 13, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 13, 2013
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> November 13, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> November 13, 2013

**FIGURE 2**

**AERIAL SITE MAP**  
 BEELINE GAS SYSTEMS  
 CANYON COMPRESSOR STATION  
 NW¼ NW¼, SECTION 1, T23N, R7W  
 RIO ARriba COUNTY, NEW MEXICO  
 N36.25896, W107.53274

# FIGURE 3

## EXCAVATION SAMPLE LOCATIONS AND RESULTS OCTOBER 2013

BEELINE GAS SYSTEMS  
CANYON COMPRESSOR STATION  
NW¼, NW¼, SECTION 1, T23N, R7W  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.25896, W107.53274



Animas Environmental Services, LLC

**DRAWN BY:**

C. Lameman

**DATE DRAWN:**

November 13, 2013

**REVISIONS BY:**

C. Lameman

**DATE REVISED:**

November 13, 2013

**CHECKED BY:**

H. Woods

**DATE CHECKED:**

November 13, 2013

**APPROVED BY:**

E. McNally

**DATE APPROVED:**

November 13, 2013

**LEGEND**



SAMPLE LOCATIONS



SECONDARY CONTAINMENT BERM



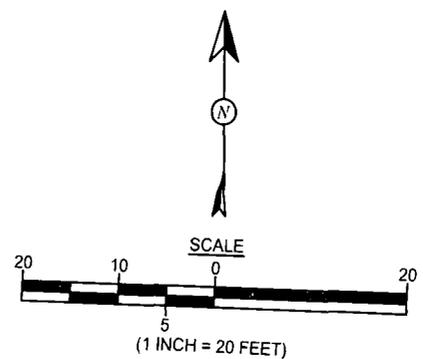
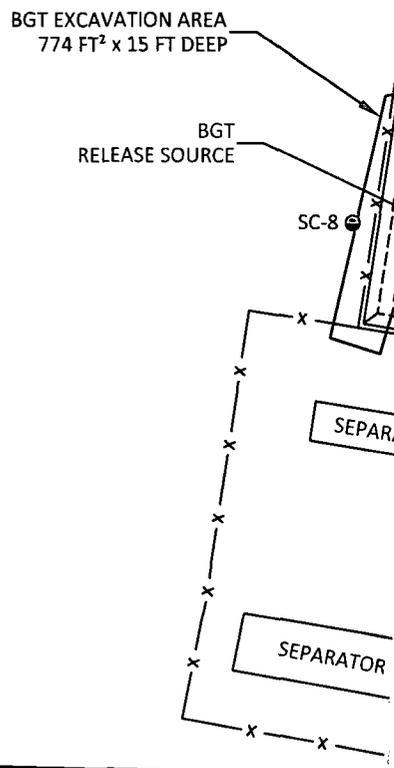
FENCE

Field Screening		
Sample ID	Date	Depth (ft)
<b>NMOCD ACTION LEVEL</b>		
S-1	10/27/13	0.5 to 1
S-2	10/27/13	0.5
S-3	10/27/13	11
SC-1	10/28/13	1 to 1.5
SC-2	10/28/13	1.5 to 2
SC-3	10/28/13	1.5 to 2
SC-4	10/28/13	0.5 to 1
SC-5	10/28/13	1 to 15
SC-6	10/28/13	1 to 15
SC-7	10/28/13	15
SC-8	10/28/13	1 to 15
SC-9	10/28/13	1 to 15
SC-10	10/28/13	1 to 15

ALL SAMPLES WERE 5-POINT CO  
NA - NOT ANALYZED

Laboratory Analytical			
Sample ID	Date	Depth (ft)	Bei (m)
<b>NMOCD ACTION LEVEL</b>			
BGT Excavation Composite	10/28/13	1 to 15	<0
Release Path Excavation Composite	10/28/13	1 to 2	<0

RELEASE PATH EXCAVATION COMPOSITE WAS A C  
BGT EXCAVATION COMPOSITE WAS A COMPOSITE  
ALL SAMPLES WERE ANALYZED PER EPA METHOD







# Bill of Lading

MANIFEST # 44986

DATE 10-25 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
1	Eitech	Beeline Gas Systems	Clean Fill	-	12	-	MOSS	47	8:20	Lee Moss	
2	"	" Canyon Land Station	SOIL	-	12	-	MOSS	47	12:30	Lee Moss	
3	"	" " "	"	-	12	-	MOSS	15	1400	Math-BMCF	
4	"	" " "	"	-	12	-	MOSS	47	1445	Lee Moss	
						48					
RESULTS:		LANDFARM EMPLOYEE:		<i>Cary Robinson</i> <sup>Blaw</sup> Certification of above receipt & placement				NOTES:  <div style="text-align: right;">RD</div>			
✓	CHLORIDE TEST	✓									
✓	PAINT FILTER TEST	✓									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Moss Excavation NAME Lee Moss SIGNATURE Lee Moss  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 10-25-13

Signatures required prior to distribution of the legal document.

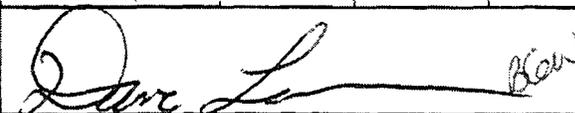


# Bill of Lading

MANIFEST # 44991

DATE 10-25-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
2	Becline Gas Systems Canyon Comp Station	LFH	Cont Soil	B-24	14	-	MOSS	47	12:30	Lee Moss	
2	"	"	"	B-24	14	-	MOSS	47	14:45	Lee Moss	
3	"	"	"	B-24	14	-	MOSS	15	16:10	Neil B. McK	
4	"	"	"	B-24	14	-	MOSS	47	17:05	Lee Moss	
					56						
RESULTS:		LANDFARM EMPLOYEE:						NOTES:			
4299	CHLORIDE TEST	1						Certification of above receipt & placement			
	PAINT FILTER TEST	1									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Moss Excavation NAME Lee Moss SIGNATURE Lee Moss

COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 10-25-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45005

DATE 10-28-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	E.tech	Beeline Gas Systems	Clear Fill	-	12	-	MOSS	15	8:50	Nathan BML
2	E.tech	CANYON COMP Station	"	-	12	-	MOSS	47	8:50	Lee Moss
3	"	"	"	-	12	-	MOSS	47	10:45	Lee Moss
4	"	"	"	-	12	-	MOSS	15	10:56	Nathan BML
5	"	"	"	-	12	-	MOSS	47	13:10	Lee Moss
6	"	"	"	-	12	-	MOSS	15	13:25	Nathan BML
7	"	"	"	-	12	-	MOSS	47	16:10	Lee Moss
8	"	"	"	-	12	-	MOSS	15	16:10	Nathan BML
					96					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
<input checked="" type="checkbox"/>	CHLORIDE TEST	<i>Cory Robinson</i>		Certification of above receipt & placement						
<input checked="" type="checkbox"/>	PAINT FILTER TEST									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. MOSS EQUIVATION NAME NATHAN BML KENNEY SIGNATURE Nathan BML  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 10-28-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45006

DATE 10-28-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
1	Beeline Gas Systems	LF II	cont soil	C-25	12	-	MOSS	47 <del>1045</del>	1045	Lee Moss	
2	Canyon Comp Station	"	"	C-25	12	-	MOSS	15	1056	Lee Moss	
3	"	"	"	C-25	12	-	MOSS	47	1310	Lee Moss	
4	"	"	"	C-25	12	-	MOSS	15	1325	Lee Moss	
5	"	"	"	C-25	12	-	MOSS	47	1610	Lee Moss	
6	"	"	"	C-25	12	-	MOSS	15	1610	Lee Moss	
7	"	"	"	C-25	12	-	MOSS	47	1816	Lee Moss	
8	"	"	"	C-25	12	-	MOSS	15	1920	Lee Moss	
						96					
RESULTS:		LANDFARM EMPLOYEE:		<i>Gay Robinson</i> Certification of above receipt & placement				NOTES:  RPC			
L299	CHLORIDE TEST	2									
	PAINT FILTER TEST	2									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. MOSS NAME Lee Moss SIGNATURE Lee Moss  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 10-28-13

Signatures required prior to distribution of the legal document.





# Bill of Lading

MANIFEST # 45013

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DATE 10-29-13 JOB # 07152-0010

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	E-tech	Beeline Gas Sys.	Clean Fill	—	12	—	MOSS	15	808	Nathan B. McKinney
2	"	Canyon Comp. Station	SOIL	—	12	—	MOSS	47	810	Lee Moss
3	"	"	"	—	12	—	MOSS	15	1040	Lee Moss
4	"	"	"	—	12	—	MOSS	47	1040	Lee Moss
5	"	"	"	—	12	—	MOSS	47	1340	Lee Moss
6	"	"	"	—	12	—	MOSS	15	1355	Nathan B. McKinney
					72					
RESULTS:		LANDFARM EMPLOYEE:	Cary Robinson <i>Blaw</i>			NOTES:				
✓	CHLORIDE TEST									
✓	PAINT FILTER TEST		Certification of above receipt & placement			RD				

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. MOSS

NAME Nathan B. McKinney

SIGNATURE Nathan B. McKinney

COMPANY CONTACT

PHONE

DATE 10-29-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45014

DATE 10-29-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
1	Beeline Gas Systems	LFII	CONT SOIL	C-24	12	-	MOSS	15	1040	<i>Nathan B. McKinney</i>	
2	Canyon Comp Station	"	"	C-24	12	-	MOSS	47	1040	<i>Lee Moss</i>	
3	" "	"	"	C-24	12	-	MOSS	15	1340	<i>Nathan B. McKinney</i>	
4	" "	"	"	C-24	12	-	MOSS	47	1340	<i>Lee Moss</i>	
5	" "	"	"	C-24	12	-	MOSS	47	1650	<i>Lee Moss</i>	
6	" "	"	"	C-24	12	-	MOSS	15	1655	<i>Nathan B. McKinney</i>	
					72						
RESULTS:		LANDFARM EMPLOYEE:		<i>Cory Robinson</i>				NOTES:			
4287	CHLORIDE TEST	2									
	PAINT FILTER TEST	2	Certification of above receipt & placement <i>BOW</i>				RDC				

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. MOSS NAME Nathan B. McKinney SIGNATURE *Nathan B. McKinney*  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 10-29-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45015

DATE 10-29-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	E-tech	Beeline Gas	Clean Fill	—	16	—	Del Prado	1	932	Robt Prado
2	" Canyon	Systems Comp.	SOIL	—	16	—	Del Prado	1	1147	Robt Prado
3	" "	Station	"	—	16	—	Del Prado	1	1425	Robt Prado
					48					
RESULTS:		LANDFARM EMPLOYEE:	<i>Gary Robinson</i> Certification of above receipt & placement				NOTES:			
✓	CHLORIDE TEST						R.D.			
✓	PAINT FILTER TEST									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Del Prado NAME Robt Prado SIGNATURE [Signature]

COMPANY CONTACT Robt Prado PHONE 635-8578 DATE 10-29-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45016

DATE 10-29-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Beeline Gas	LFI	CONT SOIL	C-24	16	-	Del Prado	1	1147	Ralph Prado
2	System's Canyon Comp	"	"	C-24	16	-	Del Prado	1	1425	Ralph Prado
3	Station	"	"	C-24	16	-	Del Prado	1	1654	Ralph Prado
					48					
RESULTS:		LANDFARM EMPLOYEE:		Garry Robinson			NOTES:			
4287	CHLORIDE TEST	1								
	PAINT FILTER TEST	1	Certification of above receipt & placement			RAC				

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Del Prado NAME Ralph Prado SIGNATURE [Signature]  
 COMPANY CONTACT RAC PHONE 635-8578 DATE 10-29-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45023

DATE 10-30-13 JOB # 07152-0010

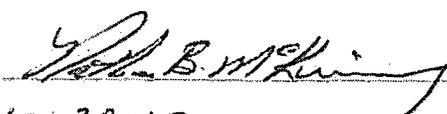
PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
2	E-toch	Boeing 695 system canopy construction	Clean Fill	—	12	—	MOSS	15	8:10	Nathan B. McKinney	
2	"	"	"	—	12	—	MOSS	47	8:10	Lee Moss	
3	"	"	"	—	12	—	MOSS	47	11:00	Lee Moss	
4	"	"	"	—	12	—	MOSS	15	11:00	Nathan B. McKinney	
5	"	"	"	—	12	—	MOSS	47	13:25	Lee Moss	
6	"	"	"	—	12	—	MOSS	15	13:26	Nathan B. McKinney	
					72						
RESULTS:		LANDFARM EMPLOYEE:		 Certification of above receipt & placement <i>BLM</i>				NOTES:			
/	CHLORIDE TEST	/						RD			
/	PAINT FILTER TEST	/									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. MOSS

NAME Nathan B. McKinney

SIGNATURE 

COMPANY CONTACT

PHONE

DATE 10-30-13

Signatures required prior to distribution of the legal document.

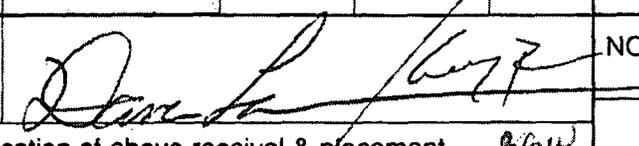


# Bill of Lading

MANIFEST # 45024

DATE 10-30-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	E.Tech	Beeline Gas	Clean Fill	-	16	-	Del Prado	1	8:15	Ralph Prado
2	"	System's Comp Station	SOIL	-	16	-	Del Prado	1	1104	Ralph Prado
3	"	"	"	-	16	-	Del Prado	1	1330	Ralph Prado
					48					
RESULTS:		LANDFARM EMPLOYEE:	NOTES:							
✓	CHLORIDE TEST	 Certification of above receipt & placement	BOW RD							
✓	PAINT FILTER TEST									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Ralph Prado NAME Ralph Prado SIGNATURE 

COMPANY CONTACT Ralph PHONE 635-8578 DATE 10-30-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45025

DATE 10-30-13 JOB # 07152-0010

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Beeline Gas Systems	Cont SOIL	LFII	B-24	12	—	MOSS	47	11:00	Lee Moss
2	CANYON Comp Station	"	"	B-24	12	—	MOSS	15	11:00	Rob B... [Signature]
3	" "	"	"	B-24	12	—	MOSS	47	13:25	Lee Moss
4	" "	"	"	B-24	12	—	MOSS	15	13:26	Rob B... [Signature]
5	" "	"	"	B-24	12	—	MOSS	47	15:55	Lee Moss
6	" "	"	"	B-24	12	—	MOSS	15	16:00	Rob B... [Signature]
					72					
RESULTS:		LANDFARM EMPLOYEE: <u>Gary Robinson</u> [Signature]				NOTES:				
<u>2</u>	CHLORIDE TEST	<u>2</u>	Certification of above receipt & placement			RDC				
	PAINT FILTER TEST	<u>2</u>								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. MOSS NAME Lee Moss SIGNATURE Lee Moss

COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 10-30-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45026

DATE 10-30-13 JOB # 07152-0010

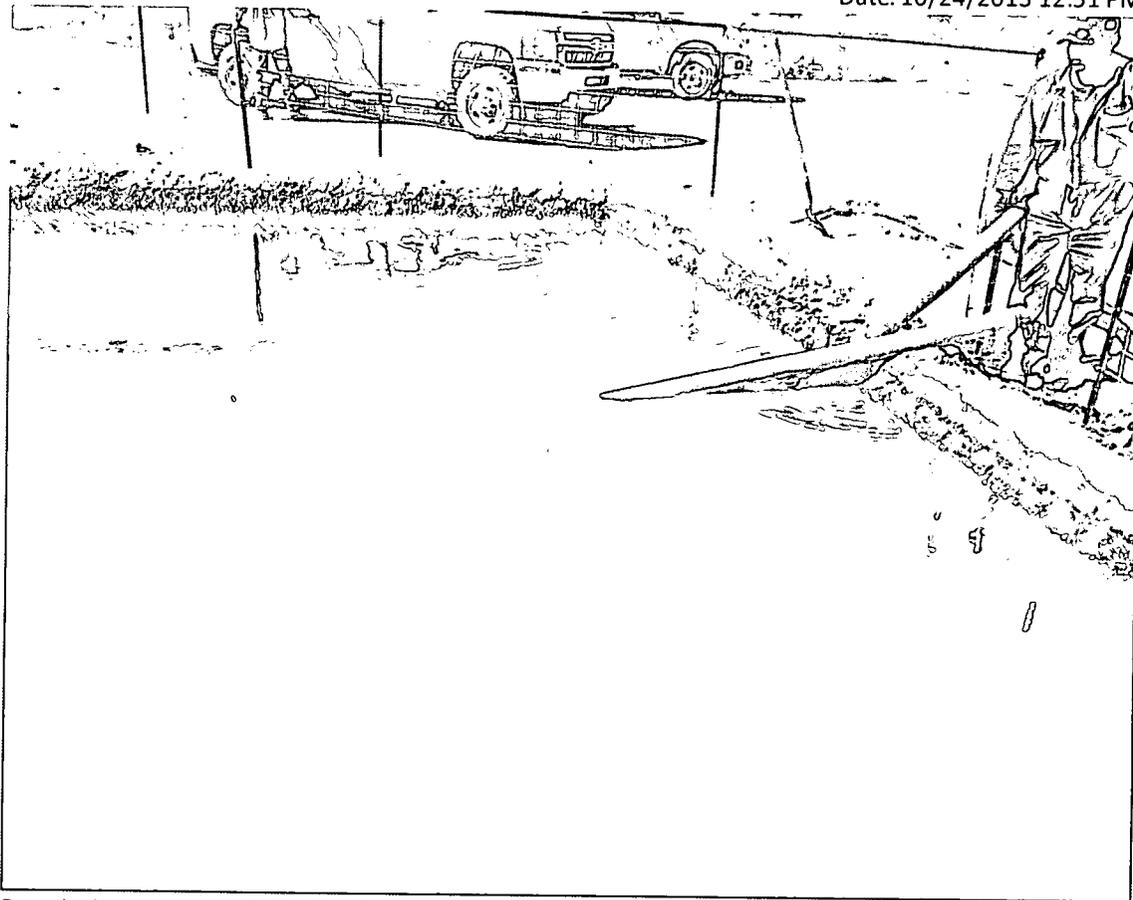
PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401.

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Beeline Gas Systems CYN	LF II	cont soil	B-24	16	-	Del Prado	1	11:04	Ralph Prado
2	Comp Station	"	"	B-24	16	-	Del Prado	1	13:30	Ralph Prado
3	"	"	"	B-24	16	-	"	1	16:10	Ralph Prado
					48					
RESULTS:		LANDFARM EMPLOYEE: <i>Gary Robinson</i>				NOTES:				
<287	CHLORIDE TEST	1	Certification of above receipt & placement			RDC				
	PAINT FILTER TEST	1								

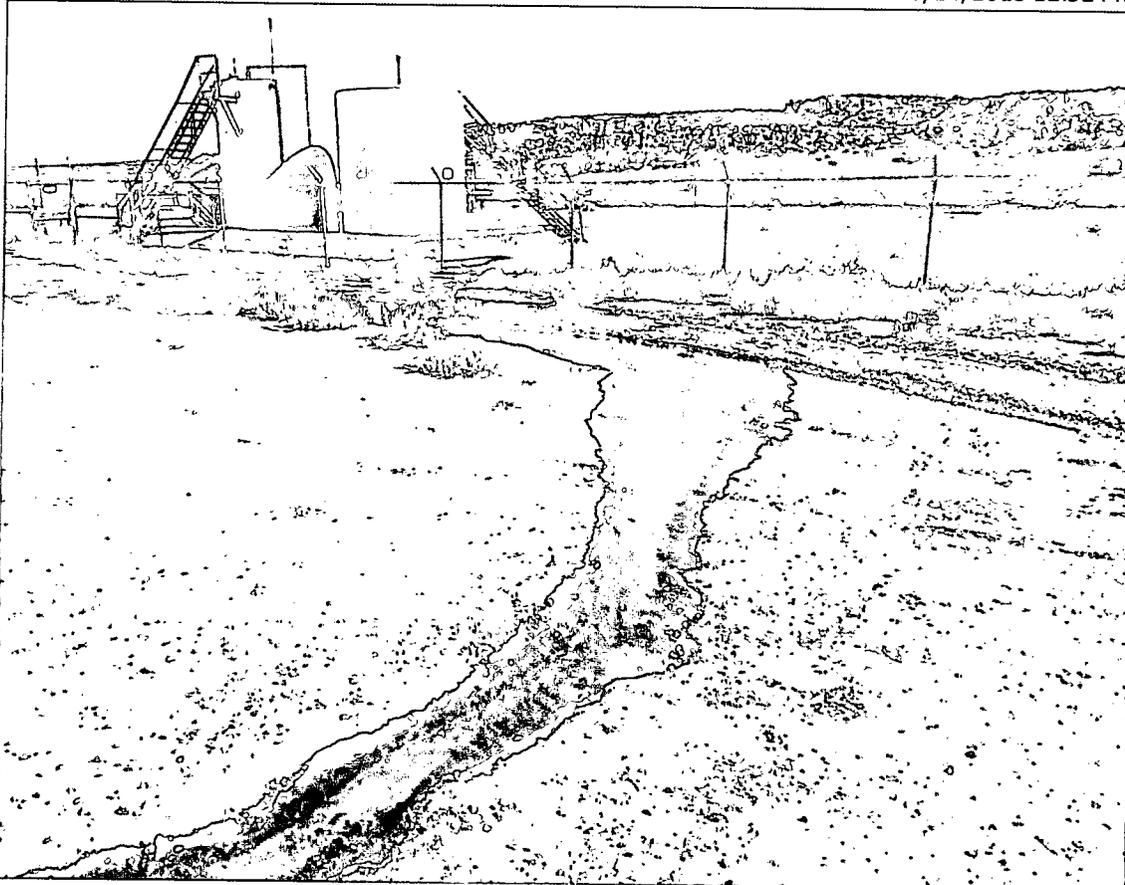
By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Del Prado NAME Ralph Prado SIGNATURE R P  
 COMPANY CONTACT Ralph PHONE 635-8578 DATE 10-30-13

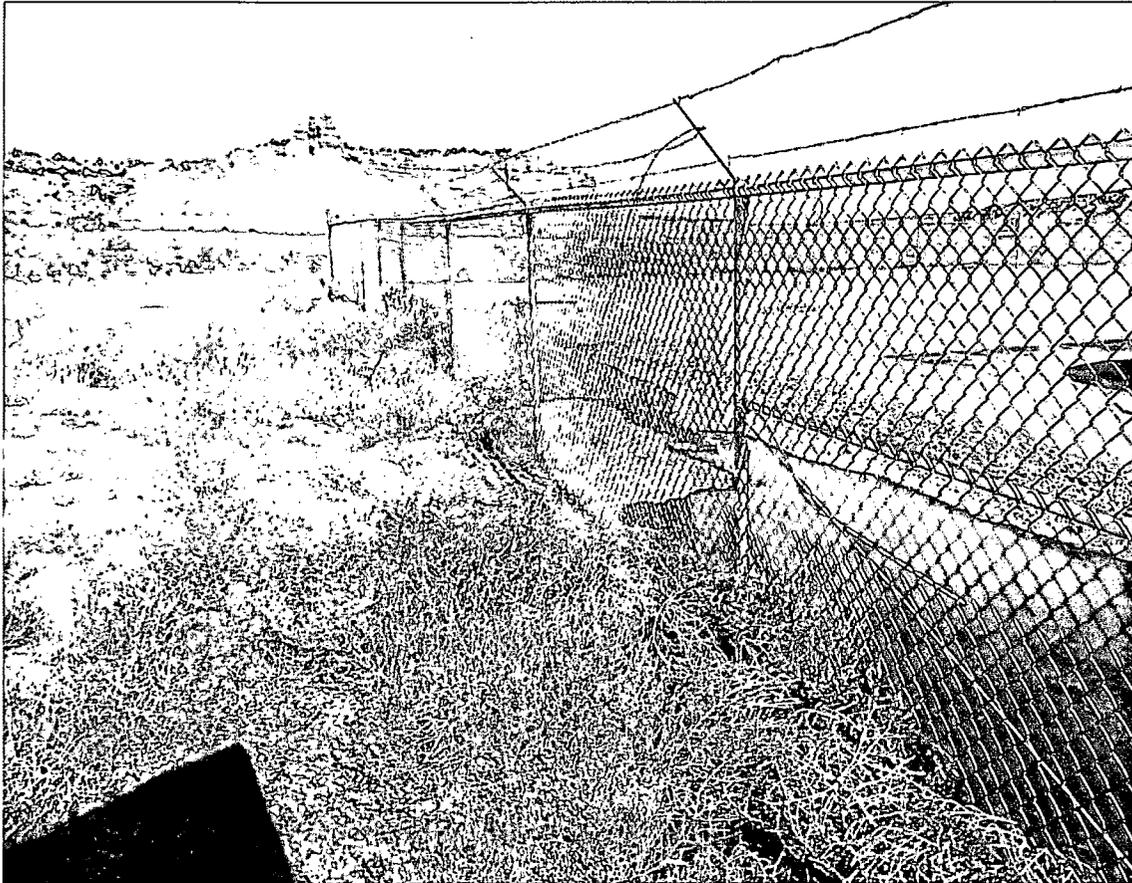
Signatures required prior to distribution of the legal document.



Description: View looking west of below grade tank containment area.



Description: View looking northeast of release path.



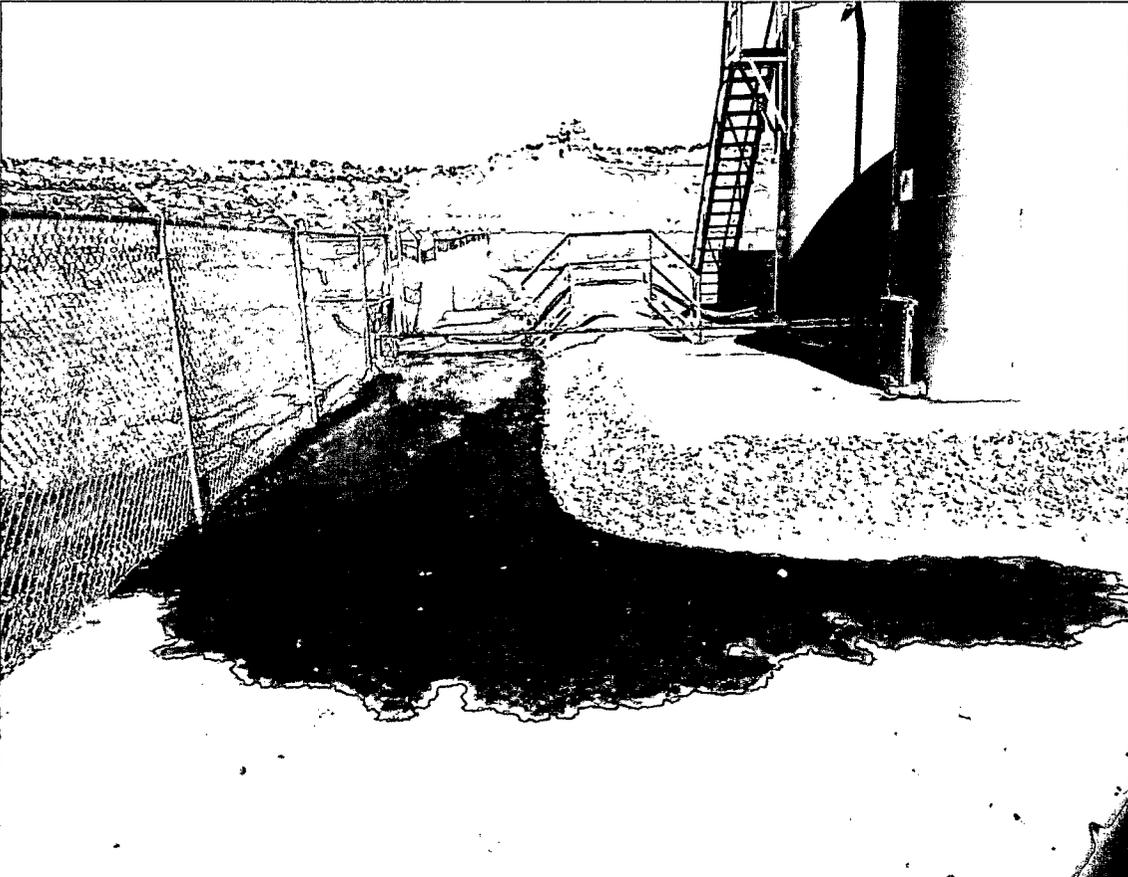
Description: View looking north of release path.



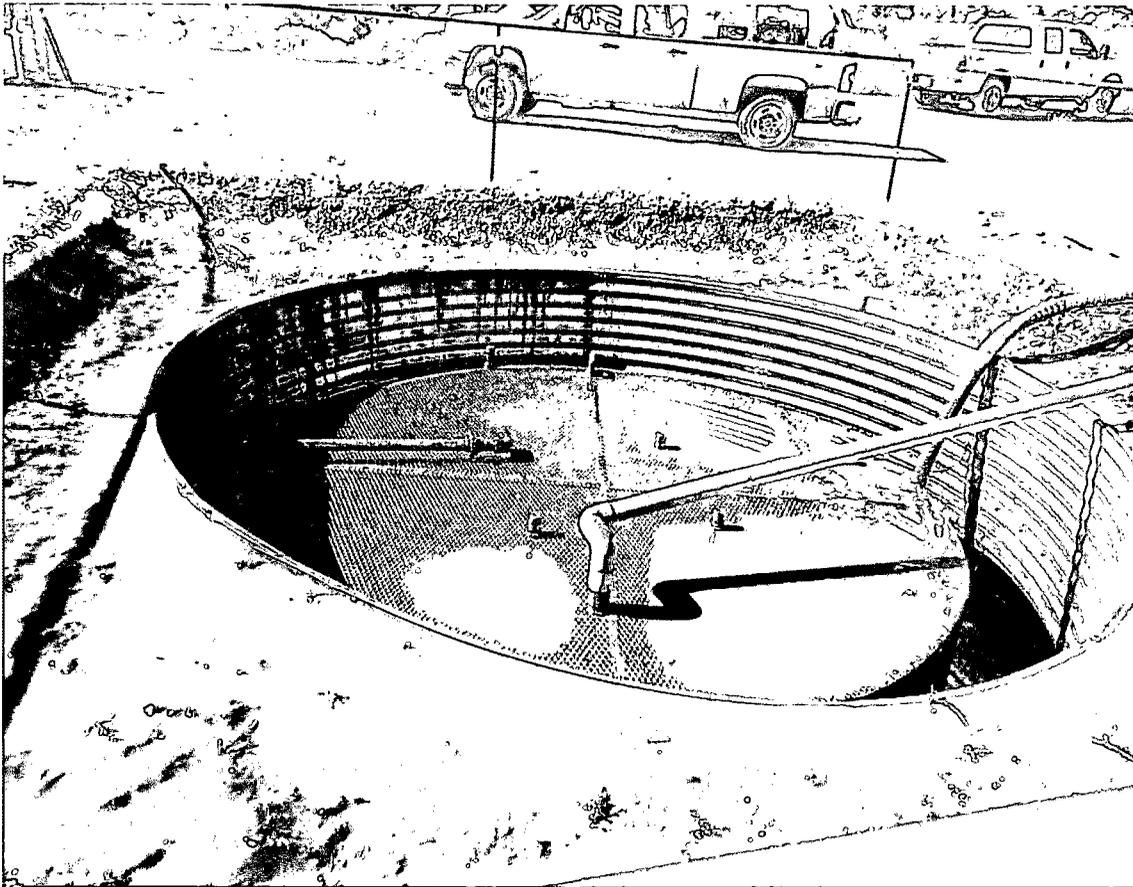
Description: View looking east of release path located at the north end of the production tank containment berm.



Description: View looking east of release path located at the south end of the production tank containment berm.



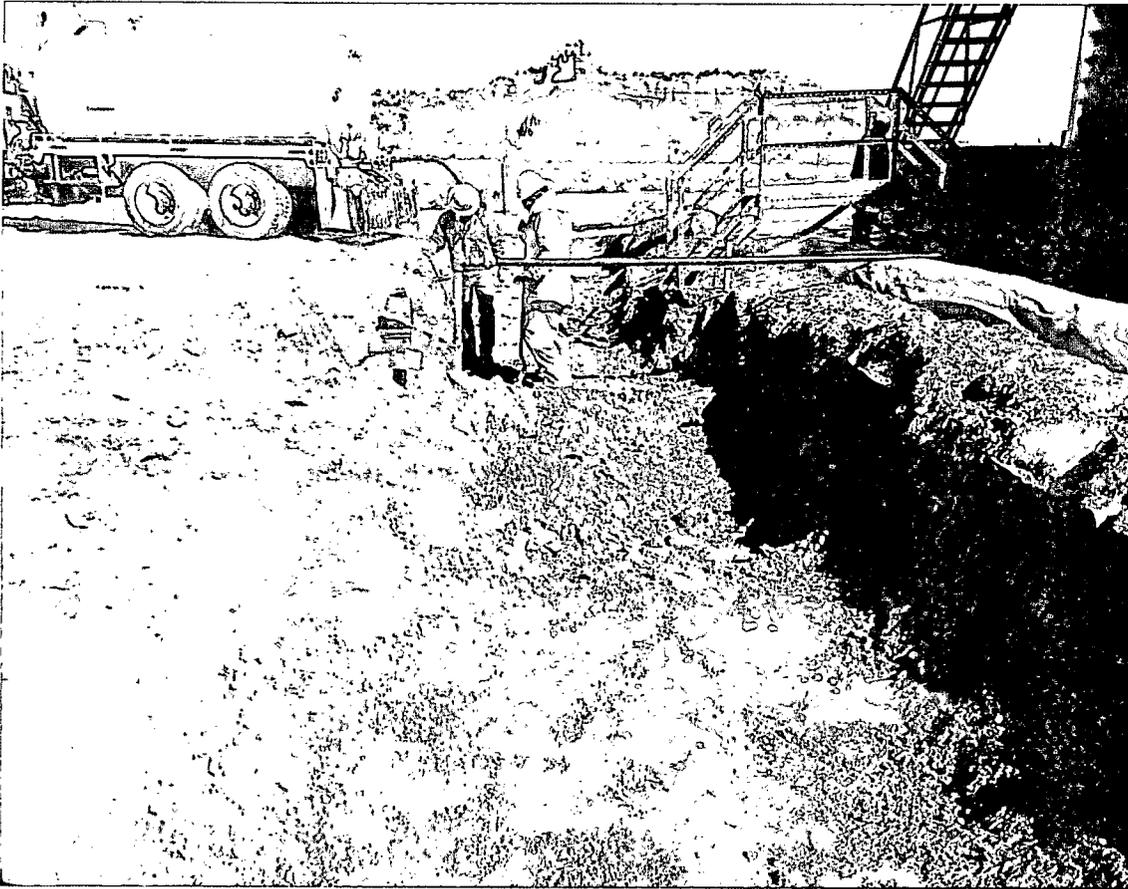
Description: View looking north of release path.



Description: View looking west of the below grade tank and containment following removal of free standing fluids.



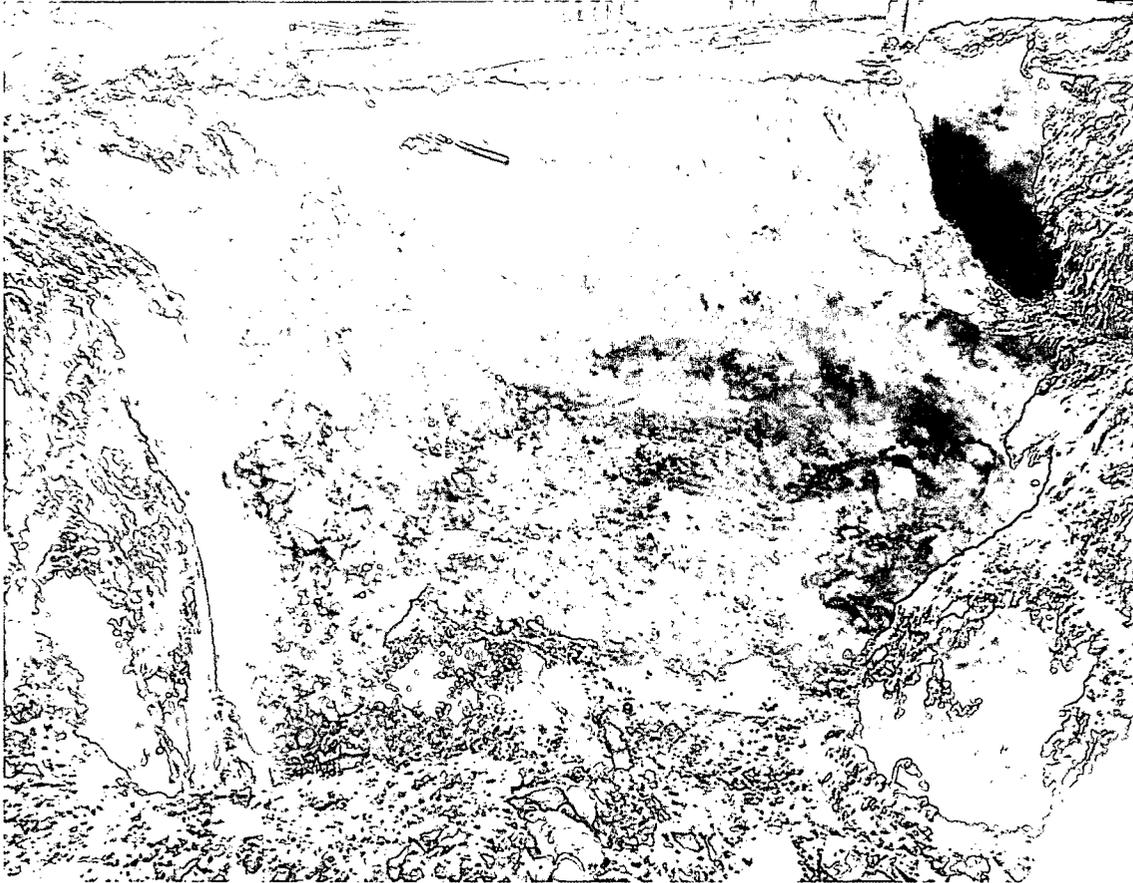
Description: View looking southwest of release path excavation.



Description: View looking north of release path excavation.



Description: View looking east of release path excavation located on the south end of the production tank containment berm.



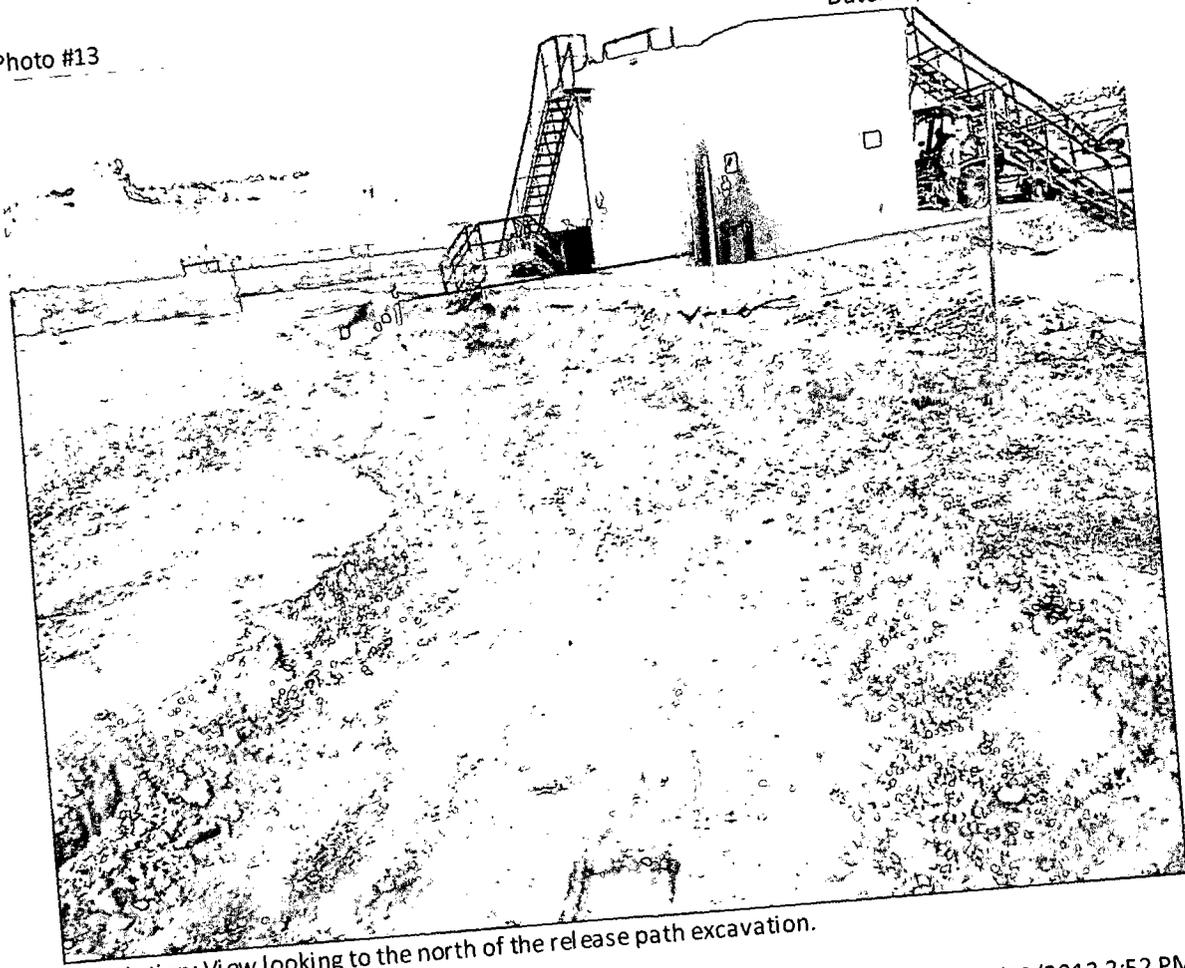
Description: View looking to the southwest of the below grade tank excavation.



Description: View looking northeast of the release path excavation.

Photo #13

Date: 10/28/2013 2:52 PM



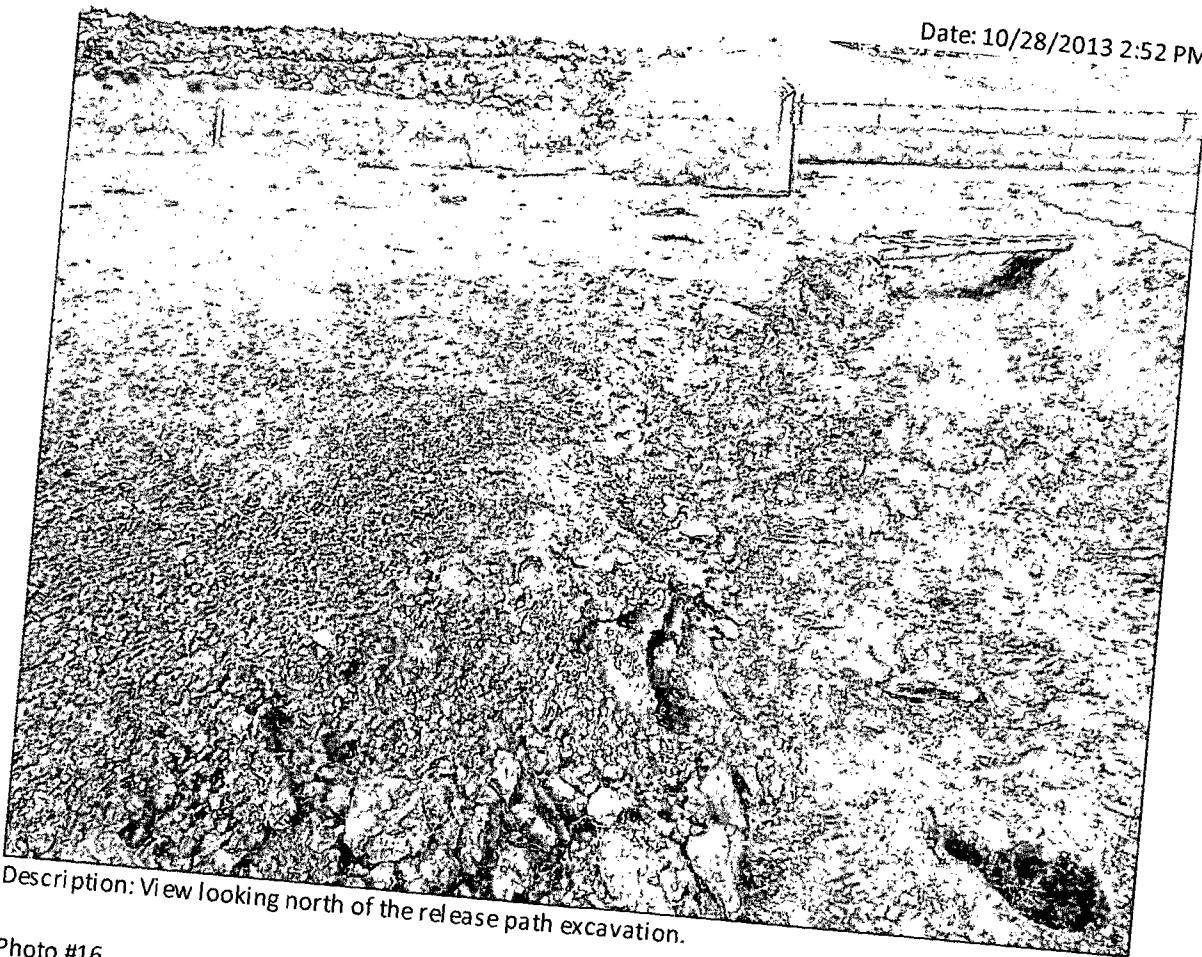
Description: View looking to the north of the release path excavation.

Photo #14

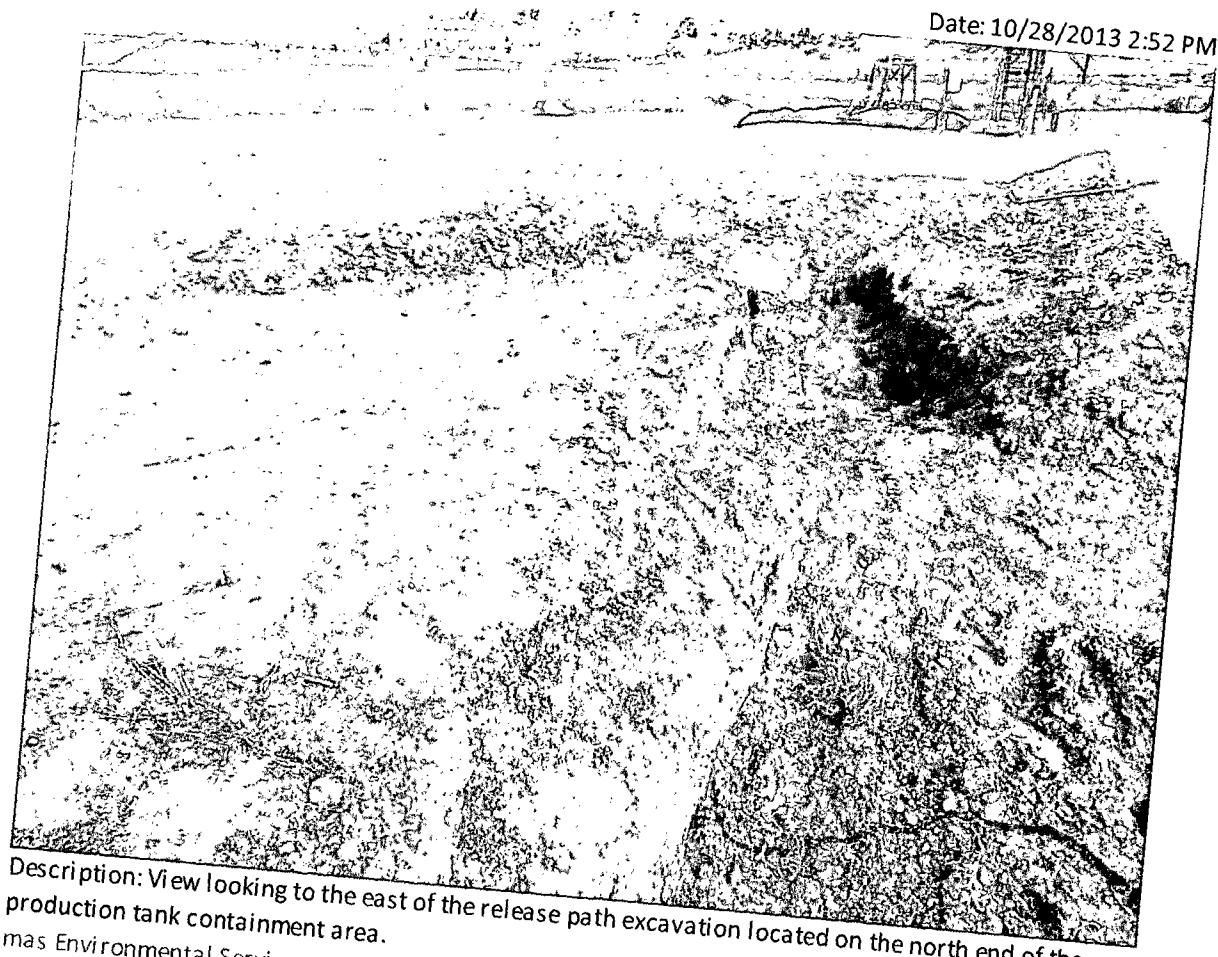
Date: 10/28/2013 2:52 PM



Description: View looking to the east of the release path excavation located on the south end of the production tank containment berm.  
Animas Environmental Services, LLC



Description: View looking north of the release path excavation.



Description: View looking to the east of the release path excavation located on the north end of the production tank containment area.

# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: Beeline Gas Systems

Project Location: Canyon Compressor Station

Date: 10/27/13 and 10/28/13

Matrix: Soil

624 E. Comanche  
Farmington, NM 87401  
505-564-2261

Durango, Colorado  
970-403-3084

Sample ID	Collection Date	Depth (ft)	Collection Time	OVM (ppm)	Field TPH (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	10/27/2013	0.5 to 1	16:57	274	797	8:30*	20.0	1	DW
S-2	10/27/2013	0.5	17:00	231	778	8:28*	20.0	1	DW
S-3	10/27/2013	11	17:10	1,681	1,580	8:34*	20.0	1	DW
SC-1	10/27/2013	1 to 1.5	16:50	61.8	145	8:32*	20.0	1	DW
SC-2	10/27/2013	1.5 to 2	16:53	64.7	52.0	8:25*	20.0	1	DW
SC-3	10/28/2013	1.5 to 2	11:45	3.3	70.8	16:30	20.0	1	HW
SC-4	10/28/2013	0.5 to 1	11:50	2.8	62.4	16:28	20.0	1	HW
SC-5	10/28/2013	1 to 15	13:30	2.6	63.6	16:32	20.0	1	HW
SC-6	10/28/2013	1 to 15	13:45	4.1	63.6	16:34	20.0	1	HW
SC-7	10/28/2013	15	13:59	3.0	73.1	16:37	20.0	1	HW
SC-8	10/28/2013	1 to 15	14:17	2.5	115	16:40	20.0	1	HW
SC-9	10/28/2013	1 to 15	14:30	3.0	37.4	16:42	20.0	1	HW
SC-10	10/28/2013	1 to 15	14:45	2.9	105	16:44	20.0	1	HW

\* Sample analyzed on 10/28/13

DF Dilution Factor  
PQL Practical Quantitation Limit

Analysts:

*Debrah Waters*  
*Heather M. Woods*



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

October 31, 2013

Heather Woods

Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 716-2787  
FAX (505) 324-2022

RE: Beeline Canyon Station

OrderNo.: 1310D94

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/30/2013 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](http://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,

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.**

CLIENT: Animas Environmental Services

Client Sample ID: BGT Excavation Composite

Project: Beeline Canyon Station

Collection Date: 10/28/2013 2:49:00 PM

Lab ID: 1310D94-001

Matrix: MEOH (SOIL)

Received Date: 10/30/2013 9:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/30/2013 12:00:40 PM	R14452
Toluene	ND	0.050		mg/Kg	1	10/30/2013 12:00:40 PM	R14452
Ethylbenzene	ND	0.050		mg/Kg	1	10/30/2013 12:00:40 PM	R14452
Xylenes, Total	ND	0.10		mg/Kg	1	10/30/2013 12:00:40 PM	R14452
Surr: 4-Bromofluorobenzene	96.7	80-120		%REC	1	10/30/2013 12:00:40 PM	R14452
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	ND	30		mg/Kg	20	10/30/2013 12:18:24 PM	10107

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1310D94

Date Reported: 10/31/2013

**CLIENT:** Animas Environmental Services

**Client Sample ID:** Release Path Excavation Compos

**Project:** Beeline Canyon Station

**Collection Date:** 10/28/2013 2:53:00 PM

**Lab ID:** 1310D94-002

**Matrix:** MEOH (SOIL)

**Received Date:** 10/30/2013 9:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/30/2013 12:30:53 PM	R14452
Toluene	ND	0.050		mg/Kg	1	10/30/2013 12:30:53 PM	R14452
Ethylbenzene	ND	0.050		mg/Kg	1	10/30/2013 12:30:53 PM	R14452
Xylenes, Total	ND	0.10		mg/Kg	1	10/30/2013 12:30:53 PM	R14452
Surr: 4-Bromofluorobenzene	97.0	80-120		%REC	1	10/30/2013 12:30:53 PM	R14452
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Chloride	ND	30		mg/Kg	20	10/30/2013 12:55:38 PM	10107

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	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#: 1310D94

31-Oct-13

Client: Animas Environmental Services

Project: Beeline Canyon Station

Sample ID	MB-10107	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	10107	RunNo:	14470					
Prep Date:	10/30/2013	Analysis Date:	10/30/2013	SeqNo:	415718	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-10107	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	10107	RunNo:	14470					
Prep Date:	10/30/2013	Analysis Date:	10/30/2013	SeqNo:	415719	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

## 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 for VOA and TOC only.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310D94

31-Oct-13

Client: Animas Environmental Services

Project: Beeline Canyon Station

Sample ID	MB-10085 MK	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R14452	RunNo:	14452					
Prep Date:		Analysis Date:	10/30/2013	SeqNo:	415590	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	1.0		1.000		100	80	120			

Sample ID	LCS-10085 MK	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R14452	RunNo:	14452					
Prep Date:		Analysis Date:	10/30/2013	SeqNo:	415591	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.2	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	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 for VOA and TOC only.
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1310D94

RcptNo: 1

Received by/date: 

10/30/13

Logged By: Ashley Gallegos

10/30/2013 9:44:00 AM



Completed By: Ashley Gallegos

10/30/2013 9:45:36 AM



Reviewed By: IO

10/30/13

**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 the samples? Yes ✓ No NA
- 5. Were all samples received at a temperature of >0° C to 6.0° C? Yes ✓ No NA
- 6. Sample(s) in proper container(s)? Yes ✓ No
- 7. Sufficient sample volume for indicated test(s)? Yes ✓ No
- 8. Are samples (except VOA and ONG) properly preserved? Yes ✓ No
- 9. Was preservative added to bottles? Yes No ✓ NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials ✓
- 11. Were any sample containers received broken? Yes No ✓  
# of preserved bottles checked for pH:
- 12. Does paperwork match bottle labels? Yes ✓ No  
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes ✓ No Adjusted?
- 14. Is it clear what analyses were requested? Yes ✓ No
- 15. Were all holding times able to be met? Yes ✓ No Checked by:  
(If no, notify customer for authorization.)

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes No NA ✓

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via: eMail Phone Fax In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

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

# Chain-of-Custody record

Turn-Around Time:

Client: Animas Environmental Services

Standard  Rush Same Day

Mailing Address: 624 E. Comanche

Project Name: Beeline Canyon Station

Farmington, NM 87401

Project #:

Phone #: 505-564-2281

email or Fax#:

Project Manager:

QA/QC Package:

H. Woods

Standard  Level 4 (Full Validation)

Accreditation

Sampler: H. Woods

NELAP  Other \_\_\_\_\_

EDD (Type)

On Ice:  Yes  No

Sample temperature: 6



## 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	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)
10/28/13	1449	Soil	BGT Excavation Composite	meth kit / 1-4oz	MeOH / -	-001	X							X			
10/28/13	1453	Soil	Release Path Excavation Composite	meth kit / 1-4oz	MeOH / -	-002	X							X			

Date: <u>10/29/13</u>	Time: <u>1717</u>	Relinquished by: <u>Heather M. Woods</u>	Received by: <u>Christine Walters</u>	Date: <u>10/29/13</u>	Time: <u>1717</u>
Date: <u>10/29/13</u>	Time: <u>1740</u>	Relinquished by: <u>Christine Walters</u>	Received by: <u>[Signature]</u>	Date: <u>10/30/13</u>	Time: <u>0944</u>

Remarks:

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.

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Marcus A-16 Lateral	Facility Type: Pipeline right of way
Surface Owner BLM	Mineral Owner: BLM
API No. <b>OIL CONS. DIV DIST. 3</b>	

**LOCATION OF RELEASE**

**AUG 05 2014**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude N. 36.24802 Longitude W. 107.52972

**NATURE OF RELEASE**

Type of Release: Oil	Volume of Release: unknown	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence unknown	Date and Hour of Discovery 7/31/14 afternoon
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Dianna Lee	Date and Hour 8/1/2014 9:35am	
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.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
unknown at this time, one call has been placed. Excavation and soil sampling to follow.

Describe Area Affected and Cleanup Action Taken.\*  
Unknown at this time.

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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>Cory Smith</i>	
Title: Regulatory Administrator	Approval Date: <i>4/8/15</i>	Expiration Date: _____
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Aug 1, 2014	Phone: 505-330-2736	

\* Attach Additional Sheets If Necessary

# NCS 15098 41 659

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260 <b>OIL CONS. DIV DIST. 3</b>
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Marcus A-16 Lateral	Facility Type: pipeline right of way <b>OCT 28 2014</b>
Surface Owner BLM	Mineral Owner: BLM
API No.	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude 36.24802 Longitude 107.52972

**NATURE OF RELEASE**

Type of Release: oil	Volume of Release: see attached	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery 7/31/14 afternoon
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Dianna Lee	Date and Hour 8/1/14 9:35am	
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.\*  
n/a

Describe Cause of Problem and Remedial Action Taken.\*  
Leak from riser, we removed drip and connected the existing lines for repair. Soil sampling was conducted by Animas Environmental on all the walls and the base of the excavation as well as the spoil piles. All contaminated soil was hauled to Envirotech and clean fill dirt from Envirotech was brought in to backfill.

Describe Area Affected and Cleanup Action Taken.\*  
Affected area was directly above drip and below riser, all contaminated soil was hauled to Envirotech and clean fill dirt from Envirotech was brought in to backfill.

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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Regulatory Administrator	Approval Date: <i>4/8/15</i>	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: October 10, 2014	Phone: 505-330-2736	

#NCS 1509841836

# Receival Report - By Company

## ElmRidge Beeline Gas Systems

Date	BOLID	Job	Landfarm	Source	Dest	BBLS	CY	BFBBL	Final Dest	Material	CMS	MSDS	Lab	EMT	Test	Value	Pass	Comments
9/19/2014	48728	07152-0015	Landfarm 2 Unit 4	Marcus A-16 Lateral	Landfarm 2 Unit 4		20			Contaminat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chloride Paint Filter	289.00	<input checked="" type="checkbox"/>	
9/22/2014	48753	07152-0015	Landfarm 2 Unit 4	Marcus A-16 Lateral	Landfarm 2 Unit 4		48			Contaminat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chloride Paint Filter	289.00	<input checked="" type="checkbox"/>	
9/22/2014	48754	07152-0015	Clean Fill	Clean Fill	Marcus A-16 Lateral		36			Clean Fill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
							<b>Totals:</b>	104										

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

September 15, 2014

Emilee Skyles

Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

**OIL CONS. DIV DIST. 3**

**MAR 26 2015**

RE: Marcus A16 Lateral

OrderNo.: 1409572

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/12/2014 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](http://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,

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.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-1

**Project:** Marcus A16 Lateral

**Collection Date:** 9/11/2014 12:01:00 PM

**Lab ID:** 1409572-001

**Matrix:** MEOH (SOIL)

**Received Date:** 9/12/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/12/2014 2:20:10 PM	15253
Surr: DNOP	77.8	57.9-140		%REC	1	9/12/2014 2:20:10 PM	15253
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/13/2014 9:21:12 PM	R21187
Surr: BFB	91.1	80-120		%REC	1	9/13/2014 9:21:12 PM	R21187
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>DJF</b>
Benzene	ND	0.040		mg/Kg	1	9/13/2014 9:21:12 PM	R21187
Toluene	ND	0.040		mg/Kg	1	9/13/2014 9:21:12 PM	R21187
Ethylbenzene	ND	0.040		mg/Kg	1	9/13/2014 9:21:12 PM	R21187
Xylenes, Total	ND	0.080		mg/Kg	1	9/13/2014 9:21:12 PM	R21187
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	9/13/2014 9:21:12 PM	R21187

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services      Client Sample ID: Stock Pile Composite  
 Project: Marcus A16 Lateral      Collection Date: 9/11/2014 11:45:00 AM  
 Lab ID: 1409572-002      Matrix: MEOH (SOIL)      Received Date: 9/12/2014 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	120	9.9		mg/Kg	1	9/12/2014 2:41:45 PM	15253
Surr: DNOP	81.9	57.9-140		%REC	1	9/12/2014 2:41:45 PM	15253
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	9/13/2014 9:49:55 PM	R21187
Surr: BFB	109	80-120		%REC	1	9/13/2014 9:49:55 PM	R21187
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>DJF</b>
Benzene	ND	0.044		mg/Kg	1	9/13/2014 9:49:55 PM	R21187
Toluene	ND	0.044		mg/Kg	1	9/13/2014 9:49:55 PM	R21187
Ethylbenzene	ND	0.044		mg/Kg	1	9/13/2014 9:49:55 PM	R21187
Xylenes, Total	ND	0.089		mg/Kg	1	9/13/2014 9:49:55 PM	R21187
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	9/13/2014 9:49:55 PM	R21187

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

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
O	RSD is greater than RSDlimit	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#: 1409572  
 15-Sep-14

**Client:** Animas Environmental Services  
**Project:** Marcus A16 Lateral

Sample ID	<b>LCS-15253</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>15253</b>	RunNo:	<b>21164</b>					
Prep Date:	<b>9/12/2014</b>	Analysis Date:	<b>9/12/2014</b>	SeqNo:	<b>616189</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.1	68.6	130			
Surr: DNOP	3.8		5.000		76.7	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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409572

15-Sep-14

Client: Animas Environmental Services  
Project: Marcus A16 Lateral

Sample ID	MB-15236	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	15236	RunNo:	21187					
Prep Date:	9/11/2014	Analysis Date:	9/13/2014	SeqNo:	616826	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.3	80	120			

Sample ID	LCS-15236	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	15236	RunNo:	21187					
Prep Date:	9/11/2014	Analysis Date:	9/13/2014	SeqNo:	616827	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.4	80	120			

Sample ID	MB-15236 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R21187	RunNo:	21187					
Prep Date:		Analysis Date:	9/13/2014	SeqNo:	616829	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	910		1000		91.3	80	120			

Sample ID	LCS-15236 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R21187	RunNo:	21187					
Prep Date:		Analysis Date:	9/13/2014	SeqNo:	616830	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	65.8	139			
Surr: BFB	970		1000		97.4	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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1409572

15-Sep-14

**Client:** Animas Environmental Services  
**Project:** Marcus A16 Lateral

Sample ID <b>MB-15236</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>15236</b>	RunNo: <b>21187</b>								
Prep Date: <b>9/11/2014</b>	Analysis Date: <b>9/13/2014</b>	SeqNo: <b>616854</b>							Units: <b>%REC</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	80	120			

Sample ID <b>LCS-15236</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>15236</b>	RunNo: <b>21187</b>								
Prep Date: <b>9/11/2014</b>	Analysis Date: <b>9/13/2014</b>	SeqNo: <b>616855</b>							Units: <b>%REC</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID <b>MB-15236 MK</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R21187</b>	RunNo: <b>21187</b>								
Prep Date:	Analysis Date: <b>9/13/2014</b>	SeqNo: <b>616858</b>							Units: <b>mg/Kg</b>	
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	0.99		1.000		99.3	80	120			

Sample ID <b>LCS-15236 MK</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R21187</b>	RunNo: <b>21187</b>								
Prep Date:	Analysis Date: <b>9/13/2014</b>	SeqNo: <b>616859</b>							Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1409572

RcptNo: 1

Received by/date: AK 09/12/14

Logged By: Lindsay Mangin 9/12/2014 6:30:00 AM Jessie Mangin

Completed By: Lindsay Mangin 9/12/2014 7:05:25 AM Jessie Mangin

Reviewed By: AT 09/12/14

**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 the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. 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)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No.	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			



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

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

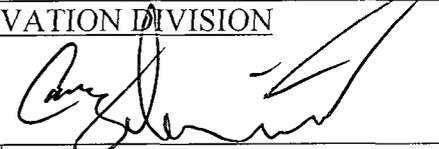
Name of Company: Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contacts: Primary - Dianna Lee - 505-634-1144 Extension 7 Secondary - Allen Lain - 505-486-0260	<b>OIL CONS. DIV. DIST. 3</b>
Address: 2001 E. Blanco Blvd., Bloomfield, NM 87413	Telephone No.: 505-634-1144 Extension 7	
Facility Name: Trunk 6F	Facility Type: Gas Gathering Pipeline	<b>OCT 28 2014</b>
Surface Owner: New Mexico	Mineral Owner: New Mexico	Lease No.: Unknown at this time

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North Line	Feet from the	East Line	County
F	36	T-24-N	R-8-W	2,155		1,662		San Juan

Latitude - N: 36.27215 Longitude - W: 107.62986

**NATURE OF RELEASE**

Type of Release: Natural Gas and Crude Condensate	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Corrosion hole in pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: March 13, 2014 at 1645
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD Aztec Office - Brandon Powell	
By Whom? Allen Lain	Date and Hour: March 14, 2014 at 1615	
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.*  Corrosion is the suspected cause of the leak. Excavation is in progress to locate the source of the leak.		
Describe Area Affected and Cleanup Action Taken.*  The leak site is next to Road 7998 approximately one mile north of US 550 near the abandoned well South Blanco State 36-3 (API No. 30-045-24680). The pipeline is isolated and blown down. The excavation is fenced. We will continue excavating Monday morning to locate the leak source and to determine the extent of the affected area.		
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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Allen Lain	Approved by District Supervisor: 	
Title: Operations Manager	Approval Date: 4/8/15	Expiration Date:
E-mail Address: alain@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: March 14, 2014	Phone: 505-486-0260	

\* Attach Additional Sheets If Necessary

#NCS 15098 42 340

①

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**COPY**

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Trunk 6F	Facility Type: Gas gathering pipeline
Surface Owner: New Mexico	Mineral Owner: New Mexico
API No. N/A	

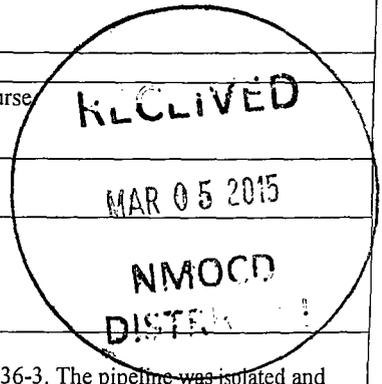
**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	36	T-24-N	R-8-W	2155		1662		San Juan

Latitude 36.27215 Longitude 107.62986

**NATURE OF RELEASE**

Type of Release: Natural Gas and Crude Condensate	Volume of Release: see attached	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence unknown	Date and Hour of Discovery March 13, 2014 @ 1645
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD- Brandon Powell	
By Whom? Allen Lain	Date and Hour: 3/14/14 @ 1615	
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.* n/a		
Describe Cause of Problem and Remedial Action Taken.* Corrosion, excavation and pipe repair.		
Describe Area Affected and Cleanup Action Taken.* The leak site is next to road 7998 approximately one mile north of US 550 near the abandon well South Blanco State 36-3. The pipeline was isolated and blown down, excavation and soil sampling were conducted and backfill was completed. Contaminated soil was hauled to Envirotech facility.		



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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Regulatory Administrator	Approval Date: 4/18/15	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: October 10, 2014	Phone: 505-330-2736	

\* Attach Additional Sheets If Necessary

#NCS 1509842522

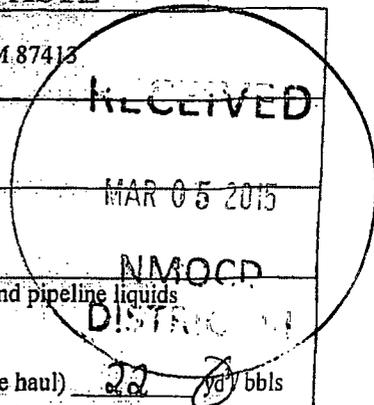


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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised August 1, 2011  
07152-0013  
\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE



1. Generator Name and Address: Elmridge Resources dba Beeline Gas Systems, 2001 E. Blanco Blvd, P.O. Box 1280, Farmington, NM 87413

2. Originating Site: Trunk 6F

3. Location of Material (Street Address, City, State or ULSTR): Unit G, Section 36, T24N, R8W, N36.27215, W107.62986

4. Source and Description of Waste: Hydrocarbon impacted soil from pipeline release of natural gas and pipeline liquids

Estimated Volume 20  bbls Known Volume (to be entered by the operator at the end of the haul) 22  bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Dianna Lee *Dianna Lee*, representative or authorized agent for Beeline Gas Systems do hereby PRINT & SIGN NAME COMPANY NAME

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator/Generator Waste Acceptance Requirements

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Dianna Lee *Dianna Lee*, representative for Beeline Gas Systems authorize Envirotech to complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree *Greg Crabtree*, representative for Envirotech do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: ~~Halo Services, Inc.~~ Riehl Trucking

#### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

- Evaporation  Injection  Treating Plant  Landfarm  Landfill  Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Environmental Manager DATE: 3/20/14

SIGNATURE: Greg Crabtree  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: (505) 632-0615

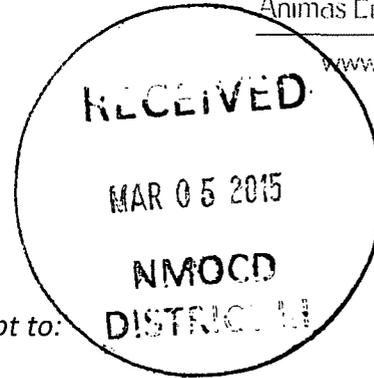


Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado  
870-403-3084



June 24, 2014

Dianna Lee  
Beeline Gas Systems  
2001 East Blanco Boulevard  
Bloomfield, New Mexico 87413

Via electronic mail with delivery confirmation receipt to:  
[BeelineRegulatory@elmridge.net](mailto:BeelineRegulatory@elmridge.net)

**RE: Final Excavation Report  
Trunk 6F Pipeline Release  
San Juan County, New Mexico**

Dear Ms. Lee:

On March 19, 2014, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits associated with a release of natural gas and pipeline liquids from the Beeline Gas Services (Beeline) Trunk 6F 4-inch diameter pipeline. The release occurred March 14, 2014, and resulted from a pipeline leak caused by corrosion.

---

## 1.0 Site Information

### 1.1 Location

Location - SW¼ NE¼, Section 36, T24N, R8W, San Juan County, New Mexico

Release Latitude/Longitude - N36.27213 and W107.62978, respectively

Surface Owner – State of New Mexico

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 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 the assessment. The release was given a ranking score of 30 based on the following factors:

- **Depth to Groundwater:** An NMOCD C-144 form dated August 2013 for the Chaco 2408-36P #143H, located approximately 2,800 feet southeast and at a

similar elevation, reported the depth to groundwater at 38 feet below ground surface (bgs). (20 points)

- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Ephemeral washes which discharge into the wash in Blanco Canyon are located approximately 360 feet northeast and 680 feet southwest of the location. (10 points)

The ranking score of 30 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO). An action level of 100 parts per million (ppm) volatile organic compound (VOCs) concentrations via organic vapor meter (OVM) may be substituted for laboratory analysis of benzene and total BTEX.

### 1.3 Assessment and Mitigation

On March 19, 2014, Beeline contractors completed an excavation along the pipeline and determined that the release was the result of a pipeline leak caused by corrosion. The leak was immediately repaired, and prior to backfilling the excavation, AES collected a total of six soil samples for field screening and confirmation laboratory analysis from the excavation and temporarily stockpiled soil. The final excavation dimensions measured approximately 104 feet by 7 feet by 5 feet deep. The excavation was backfilled with clean stockpiled soil and clean imported material, and the impacted soil was transported to the Envirotech Landfarm for proper disposal. Soil sample locations and final excavation extents are included on Figure 3. The Envirotech Bills of Lading and a photograph log are attached.

---

## 2.0 Soil Sampling

Prior to backfilling the excavation, AES personnel collected six soil samples (SC-1 through SC-3 and SP-1 through SP-3) from the excavation base, sidewalls, and stockpiled soils for field screening. Soil samples SC-1 and SC-2 were collected from the sidewalls of the excavation from approximately 1 to 5 feet bgs, sample SC-3 was collected from the base of the excavation, and samples SP-1 through SP-3 were collected from the stockpiled soils. All soil samples except SP-3 were submitted for laboratory analysis.

## 2.1 Field Sampling

### 2.1.1 Volatile Organic Compounds

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

### 2.1.2 Total Petroleum Hydrocarbons

Selected soil samples were also analyzed in the field for TPH 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

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. Each soil sample was laboratory analyzed for:

- BTEX per USEPA Method 8021B; and
- TPH (GRO/DRO) per USEPA Method 8015B.

## 2.3 Field Sampling and Laboratory Analytical Results

Soil field sampling results for VOCs via OVM ranged from 2.2 ppm in SP-2 to 916 ppm in SP-3. Field TPH concentrations ranged from Results are summarized in Table 1 and presented on Figure 3. The AES Field Screening Report is attached.

Table 1. Soil Field Sampling Results—VOCs and TPH  
 Trunk 6F Final Excavation, March 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (ppm)</i>
<i>NMOCD Action Level*</i>			<i>100</i>	<i>100</i>
SC-1	3/19/14	1 to 5	6.6	<20.0
SC-2	3/19/14	1 to 5	<b>460</b>	91.1
SC-3	3/19/14	5	40.0	31.6
SP-1	3/19/14	Stockpile	15.6	89.8

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (ppm)</i>
<b>NMOCD Action Level*</b>			<b>100</b>	<b>100</b>
SP-2	3/19/14	Stockpile	2.2	<20.0
SP-3	3/19/14	Stockpile	<b>916</b>	<b>1,930</b>

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

Soil analytical results from SC-1 through SC-3 and SP-1 through SP-2 were used to confirm field screening results during excavation activities. Benzene concentrations ranged from below laboratory detection limits in SC-1, SP-1, and SP-2, up to 2.3 mg/kg in SC-2. Total BTEX concentrations ranged from below laboratory detection limits in SC-1, SP-1, and SP-2, up to 36.5 mg/kg in SC-2. TPH (GRO/DRO) concentrations ranged from below laboratory detection limits in SC-1 and SP-2 up to 290 mg/kg in SC-2. Laboratory analytical results are included in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results—Benzene, Total BTEX, and TPH  
Trunk 6F Final Excavation, March 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH – GRO (mg/kg)</i>	<i>TPH – DRO (mg/kg)</i>
<b>NMOCD Action Level*</b>			<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	3/19/14	1 to 5	<0.047	<0.234	<4.7	<10
SC-2	3/19/14	1 to 5	2.3	36.5	<b>160</b>	<b>130</b>
SC-3	3/19/14	5	0.11	0.74	<4.8	21
SP-1	3/19/14	Stockpile	<0.048	<0.241	<4.8	90
SP-2	3/19/14	Stockpile	<0.047	<0.235	<4.7	<9.8

\*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 March 19, 2014, final assessment of the excavation area associated with a natural gas release along the Beeline Trunk 6F pipeline was completed. 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 release was assigned a ranking score of 30. Field sampling results were reported below the NMOCD action

level of 100 ppm VOCs in all the samples except in SC-2 (460 ppm) and SP-3 (916 ppm). However, laboratory analytical results for SC-2 showed benzene and total BTEX concentrations below the applicable NMOCD action levels with 2.3 mg/kg and 36.5 mg/kg, respectively. Soils associated with SP-3 were removed to the landfarm for proper disposal. Field sampling results for TPH were below the NMOCD action level of 100 mg/kg for all the samples except SP-3. However, laboratory analytical results showed TPH (GRO/DRO) concentrations above the action level in SC-2 with 290 mg/kg.

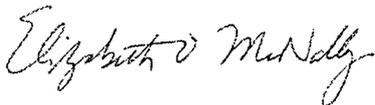
Based on the final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the Trunk 6F, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final northwest sidewall and the base of the excavation. However, the southeast wall of the excavation exceeded the NMOCD action level for TPH (GRO/DRO). On July 18, 2013, Beeline received approval of no further work from Mark Kelly of the BLM and Brandon Powell of the NMOCD.

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

Sincerely,



David J. Reese  
Environmental Scientist



Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Final Excavation Sample Locations and Results, March 2014
- Bills of Lading (Envirotech XXXXXX and XXXXX)
- Photograph Log
- Laboratory Analytical Report (Hall 1403858)



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

March 26, 2014

Heather Woods

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 716-2787

FAX (505) 324-2022

**OIL CONS. DIV DIST. 3**

**MAR 26 2015**

RE: Beeline Trunk 6F

OrderNo.: 1403858

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/20/2014 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](http://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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1403858

Date Reported: 3/26/2014

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Beeline Trunk 6F

Collection Date: 3/19/2014 9:21:00 AM

Lab ID: 1403858-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/25/2014 11:24:39 AM	12300
Surr: DNOP	113	66-131		%REC	1	3/25/2014 11:24:39 AM	12300
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2014 5:40:51 PM	12290
Surr: BFB	89.3	74.5-129		%REC	1	3/21/2014 5:40:51 PM	12290
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	3/21/2014 5:40:51 PM	12290
Toluene	ND	0.047		mg/Kg	1	3/21/2014 5:40:51 PM	12290
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2014 5:40:51 PM	12290
Xylenes, Total	ND	0.093		mg/Kg	1	3/21/2014 5:40:51 PM	12290
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	3/21/2014 5:40:51 PM	12290

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

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
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

**Analytical Report**

Lab Order 1403858

Date Reported: 3/26/2014

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-2**Project:** Beeline Trunk 6F**Collection Date:** 3/19/2014 9:26:00 AM**Lab ID:** 1403858-002**Matrix:** SOIL**Received Date:** 3/20/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	3/25/2014 12:55:53 PM	12300
Surr: DNOP	66.7	66-131		%REC	1	3/25/2014 12:55:53 PM	12300
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	160	47		mg/Kg	10	3/21/2014 11:28:03 AM	12290
Surr: BFB	151	74.5-129	S	%REC	10	3/21/2014 11:28:03 AM	12290
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	2.3	0.47		mg/Kg	10	3/21/2014 11:28:03 AM	12290
Toluene	6.7	0.47		mg/Kg	10	3/21/2014 11:28:03 AM	12290
Ethylbenzene	3.5	0.47		mg/Kg	10	3/21/2014 11:28:03 AM	12290
Xylenes, Total	24	0.95		mg/Kg	10	3/21/2014 11:28:03 AM	12290
Surr: 4-Bromofluorobenzene	118	80-120		%REC	10	3/21/2014 11:28:03 AM	12290

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services **Client Sample ID:** SC-3  
**Project:** Beeline Trunk 6F **Collection Date:** 3/19/2014 11:00:00 AM  
**Lab ID:** 1403858-003 **Matrix:** SOIL **Received Date:** 3/20/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	21	9.9		mg/Kg	1	3/25/2014 1:26:20 PM	12300
Surr: DNOP	86.3	66-131		%REC	1	3/25/2014 1:26:20 PM	12300
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2014 6:09:32 PM	12290
Surr: BFB	97.5	74.5-129		%REC	1	3/21/2014 6:09:32 PM	12290
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.11	0.048		mg/Kg	1	3/21/2014 6:09:32 PM	12290
Toluene	0.18	0.048		mg/Kg	1	3/21/2014 6:09:32 PM	12290
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2014 6:09:32 PM	12290
Xylenes, Total	0.45	0.095		mg/Kg	1	3/21/2014 6:09:32 PM	12290
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	3/21/2014 6:09:32 PM	12290

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

<b>Qualifiers:</b>	*	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	Page 3 of 9
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			



# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 1403858  
 Date Reported: 3/26/2014

CLIENT: Animas Environmental Services

Client Sample ID: SP-2

Project: Beeline Trunk 6F

Collection Date: 3/19/2014 11:45:00 AM

Lab ID: 1403858-005

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/25/2014 2:27:09 PM	12300
Surr: DNOP	102	66-131		%REC	1	3/25/2014 2:27:09 PM	12300
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2014 10:55:51 PM	12290
Surr: BFB	90.1	74.5-129		%REC	1	3/21/2014 10:55:51 PM	12290
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	3/21/2014 10:55:51 PM	12290
Toluene	ND	0.047		mg/Kg	1	3/21/2014 10:55:51 PM	12290
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2014 10:55:51 PM	12290
Xylenes, Total	ND	0.094		mg/Kg	1	3/21/2014 10:55:51 PM	12290
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	3/21/2014 10:55:51 PM	12290

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

<b>Qualifiers:</b>	*	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	Page 5 of 9
	O	RSD is greater than RSDlimit	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#: 1403858

26-Mar-14

Client: Animas Environmental Services

Project: Beeline Trunk 6F

Sample ID	MB-12299	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12299	RunNo:	17506					
Prep Date:	3/21/2014	Analysis Date:	3/24/2014	SeqNo:	504464	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		83.8	66	131			

Sample ID	LCS-12299	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12299	RunNo:	17506					
Prep Date:	3/21/2014	Analysis Date:	3/24/2014	SeqNo:	504499	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.5	66	131			

Sample ID	MB-12300	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12300	RunNo:	17506					
Prep Date:	3/21/2014	Analysis Date:	3/24/2014	SeqNo:	504500	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	8.4		10.00		83.7	66	131			

Sample ID	LCS-12300	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12300	RunNo:	17506					
Prep Date:	3/21/2014	Analysis Date:	3/24/2014	SeqNo:	504504	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.4	60.8	145			
Surr: DNOP	4.6		5.000		91.6	66	131			

Sample ID	MB-12348	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12348	RunNo:	17542					
Prep Date:	3/25/2014	Analysis Date:	3/25/2014	SeqNo:	505604	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.2	66	131			

Sample ID	LCS-12348	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12348	RunNo:	17542					
Prep Date:	3/25/2014	Analysis Date:	3/25/2014	SeqNo:	505605	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.2	66	131			

**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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403858

26-Mar-14

Client: Animas Environmental Services

Project: Beeline Trunk 6F

Sample ID	1403858-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	12300	RunNo:	17551					
Prep Date:	3/21/2014	Analysis Date:	3/25/2014	SeqNo:	505617	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.10	4.764	116	47.4	148			
Surr: DNOP	5.7		5.010		114	66	131			

Sample ID	1403858-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	12300	RunNo:	17551					
Prep Date:	3/21/2014	Analysis Date:	3/25/2014	SeqNo:	505618	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	9.9	49.36	4.764	117	47.4	148	0.259	22.7	
Surr: DNOP	5.3		4.936		108	66	131	0	0	

## 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1403858

26-Mar-14

**Client:** Animas Environmental Services

**Project:** Beeline Trunk 6F

Sample ID: <b>MB-12290</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>12290</b>	RunNo: <b>17485</b>								
Prep Date: <b>3/20/2014</b>	Analysis Date: <b>3/21/2014</b>	SeqNo: <b>504224</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.5	74.5	129			

Sample ID: <b>LCS-12290</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>12290</b>	RunNo: <b>17485</b>								
Prep Date: <b>3/20/2014</b>	Analysis Date: <b>3/21/2014</b>	SeqNo: <b>504225</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	71.7	134			
Surr: BFB	970		1000		97.1	74.5	129			

**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

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1403858

26-Mar-14

**Client:** Animas Environmental Services

**Project:** Beeline Trunk 6F

Sample ID <b>MB-12290</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>12290</b>	RunNo: <b>17485</b>								
Prep Date: <b>3/20/2014</b>	Analysis Date: <b>3/21/2014</b>	SeqNo: <b>504256</b>	Units: <b>mg/Kg</b>							
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		106	80	120			

Sample ID <b>LCS-12290</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>12290</b>	RunNo: <b>17485</b>								
Prep Date: <b>3/20/2014</b>	Analysis Date: <b>3/21/2014</b>	SeqNo: <b>504257</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	117	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID <b>1403858-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SC-1</b>	Batch ID: <b>12290</b>	RunNo: <b>17485</b>								
Prep Date: <b>3/20/2014</b>	Analysis Date: <b>3/21/2014</b>	SeqNo: <b>504268</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.047	0.9381	0.009262	113	67.4	135			
Toluene	1.0	0.047	0.9381	0.01162	108	72.6	135			
Ethylbenzene	1.0	0.047	0.9381	0	109	69.4	143			
Xylenes, Total	3.1	0.094	2.814	0.03130	108	70.8	144			
Surr: 4-Bromofluorobenzene	1.0		0.9381		111	80	120			

Sample ID <b>1403858-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SC-1</b>	Batch ID: <b>12290</b>	RunNo: <b>17485</b>								
Prep Date: <b>3/20/2014</b>	Analysis Date: <b>3/21/2014</b>	SeqNo: <b>504269</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.047	0.9390	0.009262	125	67.4	135	10.8	20	
Toluene	1.1	0.047	0.9390	0.01162	117	72.6	135	8.27	20	
Ethylbenzene	1.1	0.047	0.9390	0	119	69.4	143	8.96	20	
Xylenes, Total	3.4	0.094	2.817	0.03130	118	70.8	144	8.98	20	
Surr: 4-Bromofluorobenzene	1.0		0.9390		109	80	120	0	0	

**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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1403858

RcptNo: 1

Received by/date: LM 03/20/14

Logged By: **Anne Thorne** 3/20/2014 10:00:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 3/20/2014 *Anne Thorne*

Reviewed By: *MS* 03/20/14

**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 the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

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

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

# Chain-of-Custody Record

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)

Turn-Around Time:  
 Standard       Rush

Project Name: Beeline Trunk 6F

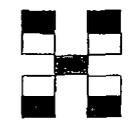
Project #:

Project Manager: H. Woods

Sampler: H. Woods / E. Skyles

On Ice:  Yes       No

Sample Temperature: \_\_\_\_\_



## 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	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TPB (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MBO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
3/19/14	0921	Soil	SC-1	1-4oz	—	201	X	X											
3/19/14	0926	Soil	SC-2	1-4oz	—	202	X	X											
3/19/14	1100	Soil	SC-3	1-4oz	—	203	X	X											
3/19/14	1140	Soil	SP-1	1-4oz	—	204	X	X											
3/19/14	1145	Soil	SP-2	1-4oz	—	205	X	X											
<del>3/19/14</del>	<del>1143</del>	<del>Soil</del>	<del>-</del>																

Date: 3/19/14 Time: 1715 Relinquished by: Heather M. Woods

Date: 3/19/14 Time: 1715 Received by: Christina White

Date: 3/19/14 Time: 1757 Relinquished by: Christina White

Date: 03/20/14 Time: 1000 Received by: [Signature]

Remarks:

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.

**FIGURE 3**

**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS**  
**MARCH 2014**  
 BEELINE GASLINE SYSTEMS  
 TRUNK 6F PIPELINE RELEASE  
 SW¼ NE¼, SECTION 36, T24N, R8W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.27213, W107.62978



Animas Environmental Services, LLC

**DRAWN BY:**  
C. Lameman

**DATE DRAWN:**  
May 10, 2014

**REVISIONS BY:**  
C. Lameman

**DATE REVISED:**  
May 10, 2014

**CHECKED BY:**  
E. Skyles

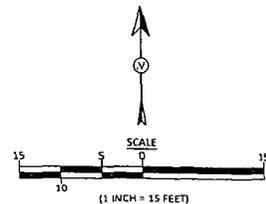
**DATE CHECKED:**  
May 10, 2014

**APPROVED BY:**  
E. McNally

**DATE APPROVED:**  
May 10, 2014

**LEGEND**

- SAMPLE LOCATIONS
- P — BURIED PIPELINE (APPROXIMATE)

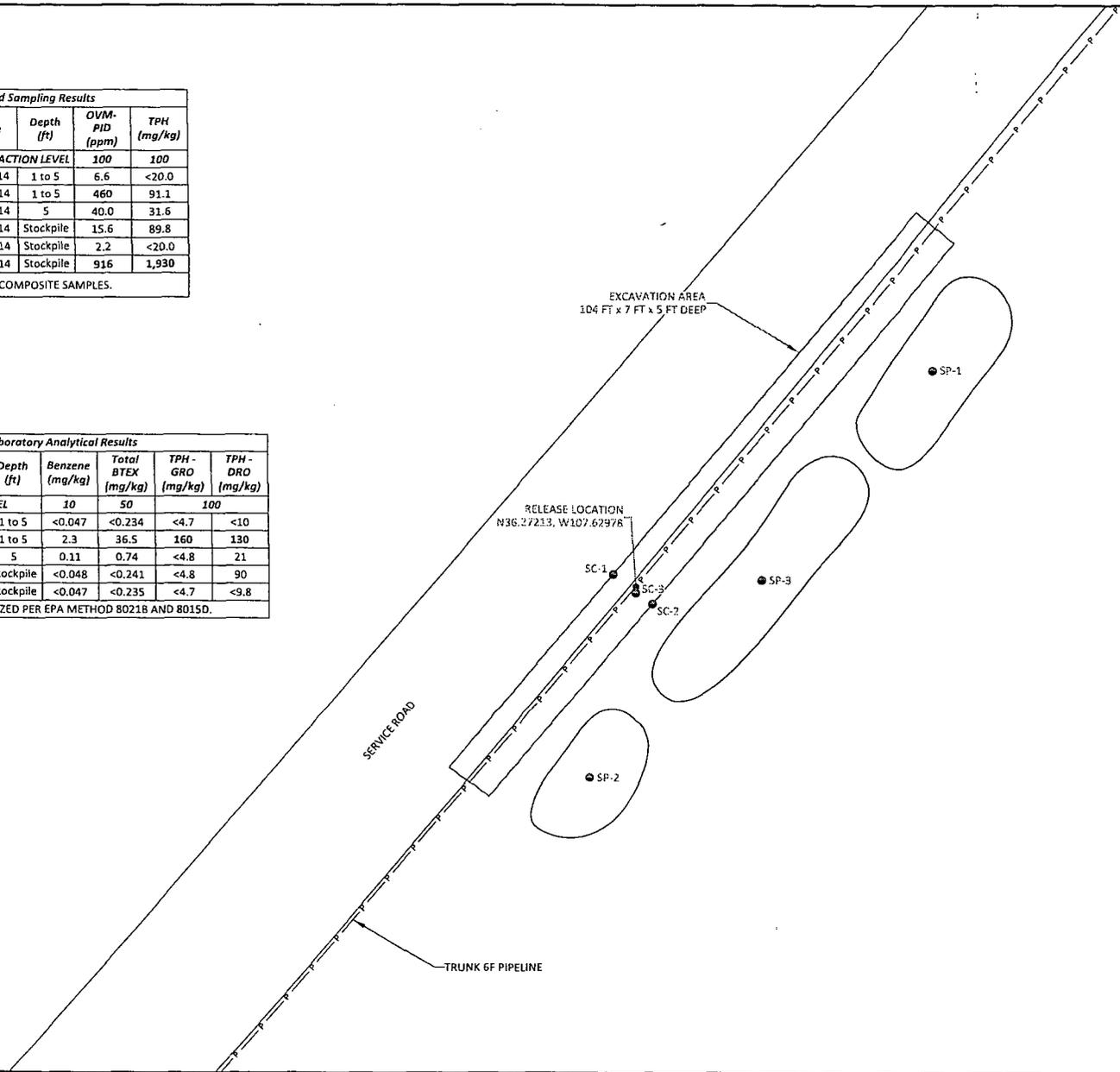


Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>100</b>	<b>100</b>
SC-1	3/19/14	1 to 5	6.6	<20.0
SC-2	3/19/14	1 to 5	460	91.1
SC-3	3/19/14	5	40.0	31.6
SP-1	3/19/14	Stockpile	15.6	89.8
SP-2	3/19/14	Stockpile	2.2	<20.0
SP-3	3/19/14	Stockpile	916	1,930

ALL SAMPLES WERE COMPOSITE SAMPLES.

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	3/19/14	1 to 5	<0.047	<0.234	<4.7	<10
SC-2	3/19/14	1 to 5	2.3	36.5	160	130
SC-3	3/19/14	5	0.11	0.74	<4.8	21
SP1	3/19/14	Stockpile	<0.048	<0.241	<4.8	90
SP-2	3/19/14	Stockpile	<0.047	<0.235	<4.7	<9.8

ALL SAMPLES WERE ANALYZED PER EPA METHOD 80218 AND 8015D.



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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Merrion Leak #2	Facility Type: Pipeline right of way <b>OIL CONS. DIV DIST. 3</b>
Surface Owner State of NM	Mineral Owner: State of NM
	API No. <b>AUG 05 2014</b>

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
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Latitude 36.28987350 Longitude -107.64034000

**NATURE OF RELEASE**

Type of Release: hydro-test leak	Volume of Release: unknown	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence unknown	Date and Hour of Discovery 7/29/14 afternoon
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Dianna Lee	Date and Hour 7/30/14 8:45am	
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.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
The line was pigged with gas then loaded with fresh water when the pressure flat lined, began to walk pipeline when leak #1 was discovered. One call has been submitted, excavation and soil sampling will be conducted when the one call is complete.

Describe Area Affected and Cleanup Action Taken.\*  
Unknown at this time.

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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>Cory Smith</i>	
Title: Regulatory Administrator	Approval Date: <i>4/8/15</i>	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: June 25, 2014	Phone: 505-330-2736	

\* Attach Additional Sheets If Necessary

*#NCS 1509842833*

District I  
1625 N. French Dr., Hobbs, NM 88240  
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Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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Santa Fe, NM 87505

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260 <b>OIL CONS. DIV DIST. 3</b>
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Merrion Leak #2	Facility Type: Pipeline right of way <b>OCT 28 2014</b>
Surface Owner State of NM	Mineral Owner: State of NM
API No.	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude 36.28987350 Longitude -107.64034000

**NATURE OF RELEASE**

Type of Release: hydro-test leak	Volume of Release: see attached	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence unknown	Date and Hour of Discovery 7/29/14 afternoon
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Dianna Lee	Date and Hour 7/30/14 8:45am	
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.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
The line was pigged with gas then loaded with fresh water when the pressure flat lined, began to walk pipeline when leak #1 was discovered. One call was submitted, excavation and soil sampling were conducted, contaminated soil was removed and backfill was completed.

Describe Area Affected and Cleanup Action Taken.\*  
Excavation and soil sampling were conducted, contaminated soil was removed and backfill was completed.

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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Regulatory Administrator	Approval Date: <i>4/8/15</i>	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: October 10, 2014	Phone: 505-330-2736	

\* Attach Additional Sheets If Necessary

#NCS 1509842967

District I  
1625 N. French Dr., Hobbs, NM 88240  
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State of New Mexico  
Energy Minerals and Natural Resources

Form C-138  
Revised August 1, 2011

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

\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

<b>1. Generator Name and Address:</b> Beeline Gas Systems, 2001 E. Blanco Blvd, PO Box 1280 Bloomfield NM 87413
<b>2. Originating Site:</b> Merrion Leak #2
<b>3. Location of Material (Street Address, City, State or ULSTR):</b> Lat: 36.28987350 Long: -107.64034000
<b>4. Source and Description of Waste:</b>  Estimated Volume _____ ? _____ yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd <sup>3</sup> / bbls
<b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b> I, <u>Dianna Lee</u> , representative or authorized agent for <u>Beeline Gas Systems</u> do hereby PRINT & SIGN NAME COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste: <u>Operator Use Only</u> <del>Waste Acceptance Frequency</del> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)
<b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b> I, <u>Dianna Lee</u> , representative for <u>Beeline Gas Systems</u> authorize Envirotech to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
<b>5. Transporter: Moss</b>

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: TNT Environmental Permit # NM-01-0008

Address of Facility: #70 CR 405 Lindrith, NM 87029

Method of Treatment and/or Disposal:

- Evaporation  Injection  Treating Plant  Landfarm  Landfill  Other

**Waste Acceptance Status:**

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Dianna Lee

TITLE: Regulatory Compliance

DATE: 8/4/2014

SIGNATURE: Dianna Lee  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-330-2736



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

August 08, 2014

Kelsey Christiansen  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

**OIL CONS. DIV DIST. 3**

**MAR 26 2015**

RE: Beeline Merrion Release #2

OrderNo.: 1408230

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/6/2014 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](http://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,

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.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Beeline Merrion Release #2

Collection Date: 8/5/2014 10:15:00 AM

Lab ID: 1408230-001

Matrix: SOIL

Received Date: 8/6/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	42	9.9		mg/Kg	1	8/6/2014 10:45:09 AM	14626
Surr: DNOP	99.1	57.9-140		%REC	1	8/6/2014 10:45:09 AM	14626
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	6.0	3.3		mg/Kg	1	8/6/2014 10:43:56 AM	R20403
Surr: BFB	126	80-120	S	%REC	1	8/6/2014 10:43:56 AM	R20403
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.033		mg/Kg	1	8/6/2014 10:43:56 AM	R20403
Toluene	ND	0.033		mg/Kg	1	8/6/2014 10:43:56 AM	R20403
Ethylbenzene	ND	0.033		mg/Kg	1	8/6/2014 10:43:56 AM	R20403
Xylenes, Total	ND	0.067		mg/Kg	1	8/6/2014 10:43:56 AM	R20403
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	8/6/2014 10:43:56 AM	R20403
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	900	30		mg/Kg	20	8/6/2014 11:54:28 AM	14629

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services      Client Sample ID: SC-2  
 Project: Beeline Merrion Release #2      Collection Date: 8/5/2014 10:20:00 AM  
 Lab ID: 1408230-002      Matrix: SOIL      Received Date: 8/6/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	20	10		mg/Kg	1	8/6/2014 11:06:35 AM	14626
Surr: DNOP	111	57.9-140		%REC	1	8/6/2014 11:06:35 AM	14626
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	8/6/2014 11:14:13 AM	R20403
Surr: BFB	106	80-120		%REC	5	8/6/2014 11:14:13 AM	R20403
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.17		mg/Kg	5	8/6/2014 11:14:13 AM	R20403
Toluene	ND	0.17		mg/Kg	5	8/6/2014 11:14:13 AM	R20403
Ethylbenzene	ND	0.17		mg/Kg	5	8/6/2014 11:14:13 AM	R20403
Xylenes, Total	ND	0.34		mg/Kg	5	8/6/2014 11:14:13 AM	R20403
Surr: 4-Bromofluorobenzene	114	80-120		%REC	5	8/6/2014 11:14:13 AM	R20403
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	480	30		mg/Kg	20	8/6/2014 12:31:42 PM	14629

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: Beeline Merrion Release #2

Collection Date: 8/5/2014 10:25:00 AM

Lab ID: 1408230-003

Matrix: SOIL

Received Date: 8/6/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	12	10		mg/Kg	1	8/6/2014 11:28:14 AM	14626
Surr: DNOP	105	57.9-140		%REC	1	8/6/2014 11:28:14 AM	14626
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	8/6/2014 11:44:29 AM	R20403
Surr: BFB	91.8	80-120		%REC	5	8/6/2014 11:44:29 AM	R20403
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.17		mg/Kg	5	8/6/2014 11:44:29 AM	R20403
Toluene	ND	0.17		mg/Kg	5	8/6/2014 11:44:29 AM	R20403
Ethylbenzene	ND	0.17		mg/Kg	5	8/6/2014 11:44:29 AM	R20403
Xylenes, Total	ND	0.33		mg/Kg	5	8/6/2014 11:44:29 AM	R20403
Surr: 4-Bromofluorobenzene	95.5	80-120		%REC	5	8/6/2014 11:44:29 AM	R20403
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	280	30		mg/Kg	20	8/6/2014 12:44:07 PM	14629

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	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#: 1408230

08-Aug-14

Client: Animas Environmental Services

Project: Beeline Merrion Release #2

Sample ID	<b>MB-14629</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>14629</b>	RunNo:	<b>20424</b>					
Prep Date:	<b>8/6/2014</b>	Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>594128</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-14629</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>14629</b>	RunNo:	<b>20424</b>					
Prep Date:	<b>8/6/2014</b>	Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>594129</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

## 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408230

08-Aug-14

Client: Animas Environmental Services

Project: Beeline Merrion Release #2

Sample ID	<b>MB-14626</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>14626</b>	RunNo:	<b>20396</b>					
Prep Date:	<b>8/6/2014</b>	Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>593213</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.0		10.00		90.3	57.9	140			

Sample ID	<b>LCS-14626</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>14626</b>	RunNo:	<b>20396</b>					
Prep Date:	<b>8/6/2014</b>	Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>593214</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.5	68.6	130			
Surr: DNOP	4.5		5.000		89.9	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

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1408230  
 08-Aug-14

**Client:** Animas Environmental Services  
**Project:** Beeline Merrion Release #2

Sample ID <b>5ML RB MK</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R20403</b>		RunNo: <b>20403</b>							
Prep Date:	Analysis Date: <b>8/6/2014</b>		SeqNo: <b>593887</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.8	80	120			

Sample ID <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>R20403</b>		RunNo: <b>20403</b>							
Prep Date:	Analysis Date: <b>8/6/2014</b>		SeqNo: <b>593888</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	65.8	139			
Surr: BFB	1000		1000		101	80	120			

Sample ID <b>1408230-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SC-1</b>	Batch ID: <b>R20403</b>		RunNo: <b>20403</b>							
Prep Date:	Analysis Date: <b>8/6/2014</b>		SeqNo: <b>593890</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	3.3	16.73	5.977	94.7	71.8	132			
Surr: BFB	940		669.3		141	80	120			S

Sample ID <b>1408230-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SC-1</b>	Batch ID: <b>R20403</b>		RunNo: <b>20403</b>							
Prep Date:	Analysis Date: <b>8/6/2014</b>		SeqNo: <b>593891</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.3	16.73	5.977	85.8	71.8	132	7.08	20	
Surr: BFB	870		669.3		129	80	120	0	0	S

**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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1408230

08-Aug-14

**Client:** Animas Environmental Services

**Project:** Beeline Merrion Release #2

Sample ID	<b>5ML RB MK</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R20403</b>	RunNo:	<b>20403</b>					
Prep Date:		Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>593938</b>	Units:	<b>mg/Kg</b>			
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		106	80	120			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R20403</b>	RunNo:	<b>20403</b>					
Prep Date:		Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>593939</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.4	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Sample ID	<b>1408230-002AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SC-2</b>	Batch ID:	<b>R20403</b>	RunNo:	<b>20403</b>					
Prep Date:		Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>593942</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.4	0.17	3.399	0.06866	98.1	77.4	142			
Toluene	3.4	0.17	3.399	0.08837	97.6	77	132			
Ethylbenzene	3.5	0.17	3.399	0.1135	99.0	77.6	134			
Xylenes, Total	11	0.34	10.20	0.3715	106	77.4	132			
Surr: 4-Bromofluorobenzene	3.9		3.399		115	80	120			

Sample ID	<b>1408230-002AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SC-2</b>	Batch ID:	<b>R20403</b>	RunNo:	<b>20403</b>					
Prep Date:		Analysis Date:	<b>8/6/2014</b>	SeqNo:	<b>593943</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.3	0.17	3.399	0.06866	95.2	77.4	142	2.99	20	
Toluene	3.3	0.17	3.399	0.08837	93.8	77	132	3.87	20	
Ethylbenzene	3.4	0.17	3.399	0.1135	96.1	77.6	134	2.91	20	
Xylenes, Total	11	0.34	10.20	0.3715	102	77.4	132	3.45	20	
Surr: 4-Bromofluorobenzene	3.8		3.399		113	80	120	0	0	

**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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1408230

RcptNo: 1

Received by/date: AT 08/06/14

Logged By: Anne Thorne 8/6/2014 7:35:00 AM *Anne Thorne*

Completed By: Anne Thorne 8/6/2014 *Anne Thorne*

Reviewed By: *my* 08/06/14

**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 the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

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

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			



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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Merrion Leak #1	Facility Type: Pipeline right of way <b>OIL CONS. DIV DIST. 3</b>

Surface Owner State of NM	Mineral Owner: State of NM	API No. <b>AUG 05 2014</b>
---------------------------	----------------------------	----------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
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Latitude 36.27692400 Longitude -107.63493200

**NATURE OF RELEASE**

Type of Release: hydro-test leak	Volume of Release: unknown	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence unknown	Date and Hour of Discovery 7/29/14 afternoon
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Dianna Lee	Date and Hour 7/30/14 8:45am	
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.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
The line was pigged with gas then loaded with fresh water when the pressure flat lined, began to walk pipeline when leak #1 was discovered. There was also an additional leak further up the line as well. The second leak will be referred to as Merrion Leak #2. One call has been submitted, excavation and soil sampling will be conducted when the one call is complete.

Describe Area Affected and Cleanup Action Taken.\*  
Unknown at this time.

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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Regulatory Administrator	Approval Date: <i>4/8/15</i>	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: June 25, 2014	Phone: 505-330-2736	

\* Attach Additional Sheets If Necessary

*#NCS 15098 47490*

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**

**OPERATOR**

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Merrion Leak #1	Facility Type: Pipeline right of way
<b>OCT 28 2014</b>	
Surface Owner State of NM	Mineral Owner: State of NM
API No.	

**OIL CONS. DIV DIST. 3**

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude 36.27692400 Longitude -107.63493200

**NATURE OF RELEASE**

Type of Release: hydro-test leak	Volume of Release: unknown	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence unknown	Date and Hour of Discovery 7/29/14 afternoon
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Dianna Lee	Date and Hour 7/30/14 8:45am	
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.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*

The line was pigged with gas then loaded with fresh water when the pressure flat lined, began to walk pipeline when leak #1 was discovered. There was also an additional leak further up the line as well. The second leak will be referred to as Merrion Leak #2. One call was submitted, excavation and soil sampling were conducted on the base, walls and spoil piles. Backfill was completed as well.

Describe Area Affected and Cleanup Action Taken.\*

Affected area was not significant, soil samples came back at acceptable levels and we were able to make the repair to the pipe and backfill.

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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Regulatory Administrator	Approval Date: <i>4/8/15</i>	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>Oct 10, 2014</i> Phone: 505-330-2736		

\* Attach Additional Sheets If Necessary

*#NCS 15098 47604*



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

August 05, 2014

Kelsey Christiansen  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

**OIL CONS. DIV DIST. 3**

**MAR 26 2015**

RE: Beeline Merrion Release #1

OrderNo.: 1408003

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/1/2014 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](http://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,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Analytical Report

Lab Order 1408003

Date Reported: 8/5/2014

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: S-1

Project: Beeline Merrion Release #1

Collection Date: 7/31/2014 8:20:00 AM

Lab ID: 1408003-001

Matrix: SOIL

Received Date: 8/1/2014 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/1/2014 10:58:05 AM	14544
Surr: DNOP	139	57.9-140		%REC	1	8/1/2014 10:58:05 AM	14544
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	8/1/2014 1:11:18 PM	R20318
Surr: BFB	118	80-120		%REC	1	8/1/2014 1:11:18 PM	R20318
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.030		mg/Kg	1	8/1/2014 1:11:18 PM	R20318
Toluene	ND	0.030		mg/Kg	1	8/1/2014 1:11:18 PM	R20318
Ethylbenzene	ND	0.030		mg/Kg	1	8/1/2014 1:11:18 PM	R20318
Xylenes, Total	0.20	0.061		mg/Kg	1	8/1/2014 1:11:18 PM	R20318
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	8/1/2014 1:11:18 PM	R20318
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Chloride	ND	90		mg/Kg	20	8/1/2014 11:57:31 AM	14550

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	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#: 1408003

05-Aug-14

Client: Animas Environmental Services

Project: Beeline Merrion Release #1

Sample ID	MB-14550	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	14550	RunNo:	20350					
Prep Date:	8/1/2014	Analysis Date:	8/1/2014	SeqNo:	591658	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-14550	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	14550	RunNo:	20350					
Prep Date:	8/1/2014	Analysis Date:	8/1/2014	SeqNo:	591659	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

## 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408003

05-Aug-14

**Client:** Animas Environmental Services

**Project:** Beeline Merrion Release #1

Sample ID: <b>MB-14544</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>14544</b>	RunNo: <b>20301</b>								
Prep Date: <b>8/1/2014</b>	Analysis Date: <b>8/1/2014</b>	SeqNo: <b>590108</b>	Units: <b>mg/Kg</b>							
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		96.4	57.9	140			

Sample ID: <b>LCS-14544</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>14544</b>	RunNo: <b>20301</b>								
Prep Date: <b>8/1/2014</b>	Analysis Date: <b>8/1/2014</b>	SeqNo: <b>590111</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.0	68.6	130			
Surr: DNOP	4.6		5.000		91.3	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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1408003  
05-Aug-14

Client: Animas Environmental Services  
Project: Beeline Merrion Release #1

Sample ID	MB-14534 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R20318	RunNo:	20318					
Prep Date:		Analysis Date:	8/1/2014	SeqNo:	590802	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	890		1000		88.5	80	120			

Sample ID	LCS-14534 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R20318	RunNo:	20318					
Prep Date:		Analysis Date:	8/1/2014	SeqNo:	590803	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	71.7	134			
Surr: BFB	910		1000		91.5	80	120			

Sample ID	MB-14534	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	14534	RunNo:	20318					
Prep Date:	7/31/2014	Analysis Date:	8/1/2014	SeqNo:	590808	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		88.5	80	120			

Sample ID	LCS-14534	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	14534	RunNo:	20318					
Prep Date:	7/31/2014	Analysis Date:	8/1/2014	SeqNo:	590809	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.5	80	120			

### 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               |
| O RSD is greater than RSDlimit                    | 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#: 1408003

05-Aug-14

**Client:** Animas Environmental Services

**Project:** Beeline Merrion Release #1

Sample ID	<b>MB-14534 MK</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>R20318</b>	RunNo: <b>20318</b>						
Prep Date:			Analysis Date: <b>8/1/2014</b>	SeqNo: <b>590821</b>	Units: <b>mg/Kg</b>					
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	1.0		1.000		101	80	120			

Sample ID	<b>LCS-14534 MK</b>		SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID:	<b>LCSS</b>		Batch ID: <b>R20318</b>	RunNo: <b>20318</b>						
Prep Date:			Analysis Date: <b>8/1/2014</b>	SeqNo: <b>590822</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.050	1.000	0	83.7	80	120			
Toluene	0.83	0.050	1.000	0	82.8	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	<b>MB-14534</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>14534</b>	RunNo: <b>20318</b>						
Prep Date:	<b>7/31/2014</b>		Analysis Date: <b>8/1/2014</b>	SeqNo: <b>590827</b>	Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	<b>LCS-14534</b>		SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID:	<b>LCSS</b>		Batch ID: <b>14534</b>	RunNo: <b>20318</b>						
Prep Date:	<b>7/31/2014</b>		Analysis Date: <b>8/1/2014</b>	SeqNo: <b>590828</b>	Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	<b>MB-14511 MK</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>R20318</b>	RunNo: <b>20318</b>						
Prep Date:			Analysis Date: <b>8/1/2014</b>	SeqNo: <b>590838</b>	Units: <b>mg/Kg</b>					
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								

**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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1408003  
05-Aug-14

**Client:** Animas Environmental Services  
**Project:** Beeline Merrion Release #1

Sample ID	<b>MB-14511 MK</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R20318</b>	RunNo:	<b>20318</b>					
Prep Date:		Analysis Date:	<b>8/1/2014</b>	SeqNo:	<b>590838</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	80	120			

Sample ID	<b>LCS-14511 MK</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R20318</b>	RunNo:	<b>20318</b>					
Prep Date:		Analysis Date:	<b>8/1/2014</b>	SeqNo:	<b>590839</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.2	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

**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               |
| O RSD is greater than RSDlimit                    | P Sample pH greater than 2.                          |
| R RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
| S Spike Recovery outside accepted recovery limits |  |



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 Environmental

Work Order Number: 1408003

RcptNo: 1

Received by/date: At 08/01/14

Logged By: Anne Thorne 8/1/2014 7:45:00 AM *Anne Thorne*

Completed By: Anne Thorne 8/1/2014 *Anne Thorne*

Reviewed By: *mg* 08/01/14

**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 the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. 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)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

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



**3R-1024**

**Release Report/ General  
Correspondence**

**Elm Ridge Pipeline**

**Date: 2015**

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 CONS. DIV DIST. 3

Form C-141  
Revised August 8, 2011

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

JUN 29 2015  
Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name #H9	Facility Type: Pipeline right of way
Surface Owner Jicarilla Apache Nation	Mineral Owner: Jicarilla Apache Nation
API No.	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	32	24N	5W					

Latitude N. 36.26550 Longitude W. 107.38732

#### NATURE OF RELEASE

Type of Release: Gas	Volume of Release: unknown	Volume Recovered: n/a
Source of Release: Pipeline Leak	Date and Hour of Occurrence 6/23/14 time unknown	Date and Hour of Discovery 6/23/14 afternoon
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly	
By Whom? Dianna Lee	Date and Hour 6/25/14	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Unknown	

If a Watercourse was Impacted, Describe Fully.\*

Spill was soaked into wash sand and no liquid was pooling, it is impossible to estimate the amount of contamination at this time. This pipeline is for transport of gas not liquids, but liquids are always present.

Describe Cause of Problem and Remedial Action Taken.\*

pipeline corrosion. Removed damaged pipe and stove piped, backfilled. Contaminated soil was hauled off, clean fill dirt was brought in from approved location.

Describe Area Affected and Cleanup Action Taken.\*

Spill was soaked into wash, one call was submitted remediation / excavation on Friday June 27<sup>th</sup> 2014. We utilized Animas Environmental Services for 3<sup>rd</sup> party soil sampling. Backfill was completed the first week of June 2015 due to weather conditions.

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: <i>Dianna Lee</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Regulatory Administrator	Approval Date: 8/11/15	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: June 19, 2015	Phone: 505-330-2736	

\* Attach Additional Sheets If Necessary

#NCS 141883 2453

28

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
811 S. First St., Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-138  
Revised August 1, 2011

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

\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

**COPY**

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. **Generator Name and Address:**  
Beeline Gas Systems, 2001 E. Blanco Blvd, PO Box 1280 Bloomfield NM 87413

**OIL CONS. DIV DIST. 3**

2. **Originating Site:**  
AXI #H9 Lateral

**JUN 29 2015**

3. **Location of Material (Street Address, City, State or ULSTR):**  
N. 36.26550 W. 107.38732

4. **Source and Description of Waste:**  
  
Estimated Volume \_\_\_\_\_ yd<sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ yd<sup>3</sup> / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**  
I, Dianna Lee, representative or authorized agent for Beeline Gas Systems do hereby  
**PRINT & SIGN NAME** **COMPANY NAME**  
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988  
regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. **Operator Use Only: Waste Acceptance Frequency**  Monthly  Weekly  Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide description in Box 4)

**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**  
I, Dianna Lee, representative for Beeline Gas Systems authorize Envirotech to  
**Generator Signature**  
complete the required testing/sign the Generator Waste Testing Certification.

I, \_\_\_\_\_, representative for \_\_\_\_\_ do hereby certify that  
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples  
have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results  
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of  
19.15.36 NMAC.

5. **Transporter: Moss**

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: TNT Environmental Permit # NM-01-0008

Address of Facility: #70 CR 405 Lindrith, NM 87029

Method of Treatment and/or Disposal:

Evaporation  Injection  Treating Plant  Landfarm  Landfill  Other

**Waste Acceptance Status:**

**APPROVED**

**DENIED (Must Be Maintained As Permanent Record)**

PRINT NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

Surface Waste Management Facility Authorized Agent



June 24, 2015

OIL CONS. DIV DIST. 3

Dianna Lee  
Beeline Gas Systems  
2001 E. Blanco Blvd  
Bloomfield, New Mexico 87413

JUN 29 2015

Via electronic mail with delivery confirmation receipt to:  
[BeelineRegulatory@elmridge.net](mailto:BeelineRegulatory@elmridge.net)

**RE: Final Excavation Report  
AXI H9 Lateral Pipeline Release  
SE¼ SW¼, Section 32, T24N, R5W  
Rio Arriba County, New Mexico**

Dear Ms. Lee:

On July 7, 2014, Animas Environmental Services, LLC (AES) completed an assessment associated with a pipeline release at the Beeline Gas Systems (Beeline) AXI H9 Lateral 4-inch diameter pipeline. The release was discovered on June 25, 2014, and resulted from pipeline corrosion.

---

## 1.0 Site Information

### 1.1 Location

Location – SE¼ SW¼, Section 32, T24N, R5W, Rio Arriba County, New Mexico  
Latitude/Longitude – N36.26545 and W107.38722, respectively  
Surface Owner – Jicarilla Apache Nation  
Figure 1. Topographic Site Location Map  
Figure 2. Aerial Site Map

### 1.2 Risk Ranking

#### 1.2.1 JANOGA Action Levels

The Beeline AXI H9 Well Tie Pipeline release is located on Jicarilla Apache Nation lands, and soil remediation action levels are determined by the Jicarilla Apache Nation Oil and Gas Administration (JANOGA). JANOGA action levels for soils currently follow the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August

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

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

1993). Per JANOGA, all locations within Jicarilla Apache Nation lands receive a ranking score of 20:

- 100 part per million (ppm) volatile organic compounds (VOCs) or 10 mg/kg benzene and 50 mg/kg total BTEX (benzene, toluene, ethylbenzene, and xylenes); and
- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

JANOGA water quality standards currently follow New Mexico Water Quality Control Commission (WQCC).

### **1.2.2 Surface and Groundwater**

The AXI H9 pipeline release location occurred within the Canyon Largo Wash floodplain. Depth to water is approximately 10 feet below ground surface (bgs), as determined by AES and Beeline personnel upon recharge of water within the excavation extent. Additional unrelated release assessments conducted by AES in the immediate vicinity corroborate the shallow depth to water, with a range of 5 to 10 feet bgs.

### **1.3 Assessment and Mitigation**

Prior to July 7, 2014, Beeline contractors completed an excavation along the pipeline and determined that the pipeline release was the result of corrosion. The pipeline was immediately repaired, and prior to backfilling the excavation AES personnel collected a total of five confirmation soil samples for field screening and laboratory analysis from the walls of the two excavations. The final excavation measured approximately 45 feet by 44 feet by 10 feet deep. The excavation was backfilled with clean, imported material. Petroleum impacted soil was removed and transported for proper disposal. Soil sample locations and final excavation extents are included on Figure 3. A photograph log is attached.

---

## **2.0 Soil and Water Sampling**

On July 7, 2014, four soil samples (S-1 through S-4) were collected from the walls of the excavation, and one grab water sample (WS-1) was collected from groundwater in the immediate vicinity of the release location. All soil samples were field screened for VOCs and analyzed for TPH and submitted for confirmation laboratory analysis. Based on field sampling and laboratory results, additional hydrocarbon impacted soil was removed from the north and west walls of the excavation. AES also collected one composite soil sample (SC-1) from the temporarily stockpiled soils adjacent to the excavation.

## 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 ppm isobutylene gas.

### 2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH 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 samples collected for laboratory analysis (S-1 through S-4 and WS-1) were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The samples were laboratory analyzed for:

- BTEX per USEPA Method 8021B.
- TPH as GRO and DRO per USEPA method 8015D.

## 2.3 Field and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations via OVM ranged from 0.6 ppm in S-5 up to 3.9 ppm in SC-2. TPH concentrations ranged from 31.1 mg/kg in SC-2 up to 35.2 in SC-1. Results are included below in Table 1 and on Figure 3. The AES Field Sampling Report is attached.

Table 1. Soil Field Sampling VOC and TPH Results  
 AXI H9 Well Tie Pipeline Release Final Excavation, July 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<i>JANOGA Action Level*</i>			<i>100</i>	<i>100</i>
SC-1	7/7/14	1 to 10	1.8	35.2
SC-2	7/7/14	1 to 10	3.9	31.1
SC-3	7/7/14	1 to 10	1.3	33.9
SC-4	7/7/14	1 to 10	0.7	33.9

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<b>JANOGA Action Level*</b>			<b>100</b>	<b>100</b>
SC-5	7/7/14	1 to 6	0.6	NA

\*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

NA = not analyzed

Laboratory analytical results for the soil samples showed benzene concentrations were all below the laboratory detection limits, and total BTEX concentrations were below laboratory detection limits for all samples except S-4 which was reported at 0.27 mg/kg. TPH concentrations as GRO/DRO were below the laboratory detection limits in all samples. Laboratory analytical results are included in Table 2 and on Figure 3.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH  
 AXI H9 Lateral Pipeline Release Final Excavation, July 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (ft)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH – GRO (mg/kg)</i>	<i>TPH – DRO (mg/kg)</i>
<b>JANOGA Action Level*</b>			<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	7/7/14	1 to 10	<0.030	<0.151	<3.0	<9.9
SC-2	7/7/14	1 to 10	<0.034	<0.171	<3.4	<10
SC-3	7/7/14	1 to 10	<0.035	<0.174	<3.5	<10
SC-4	7/7/14	1 to 10	<0.034	0.27	<3.4	<10

\*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

Laboratory analytical results for the water sample (WS-1) reported dissolved phase concentrations of benzene, toluene, ethylbenzene, and xylenes below the laboratory detection limits. Results are presented below in Table 3 and on Figure 2. The laboratory analytical report is attached.

Table 3. Water Laboratory Analytical Results – Benzene, Total BTEX, and TPH  
 AXI H9 Lateral Pipeline Release Final Excavation, July 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethyl-Benzene (µg/L)</i>	<i>Xylenes (µg/L)</i>	<i>TPH – GRO (mg/L)</i>	<i>TPH – DRO (mg/L)</i>
<b>WQCC Standards</b>		<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>100</b>	
WS-1	7/7/14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

---

### 3.0 Conclusions and Recommendations

On July 7, 2014, AES completed final clearance of the excavation area associated with petroleum contaminated soils at the Beeline AXI H9 Lateral pipeline release location. Action levels for releases are determined by JANOGA and currently reflect a site ranking of 20 per NMOCD *Guideline for Remediation of Leaks, Spills and Releases* (August 1993).

Field sampling results of the excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels for the final walls of the excavation. Soil laboratory analyses for S-1 through S-4 showed benzene and total BTEX concentrations below the JANOGA action levels of 10 mg/kg and 50 mg/kg, respectively, with the highest total BTEX concentration noted in S-4 with 0.27 mg/kg. TPH (GRO/DRO) concentrations were below the JANOGA action level of 100 mg/kg in all soil samples. Water sample (WS-1) was also collected the same day from the groundwater within the excavation limits in the immediate vicinity of the release location. Laboratory analytical results showed dissolved phase benzene and BTEX concentrations were also below the applicable WQCC standards of 10 µg/L and 50 µg/L, respectively, in WS-1.

Based on the final field sampling and laboratory analytical results of the excavation extents of petroleum hydrocarbon impacted soils at the AXI H9 Lateral Pipeline release location, VOCs, benzene, total BTEX, and TPH concentrations were below applicable JANOGA (NMOCD) action levels. No further action is recommended.

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

Sincerely,



Emilee Skyles  
Geologist



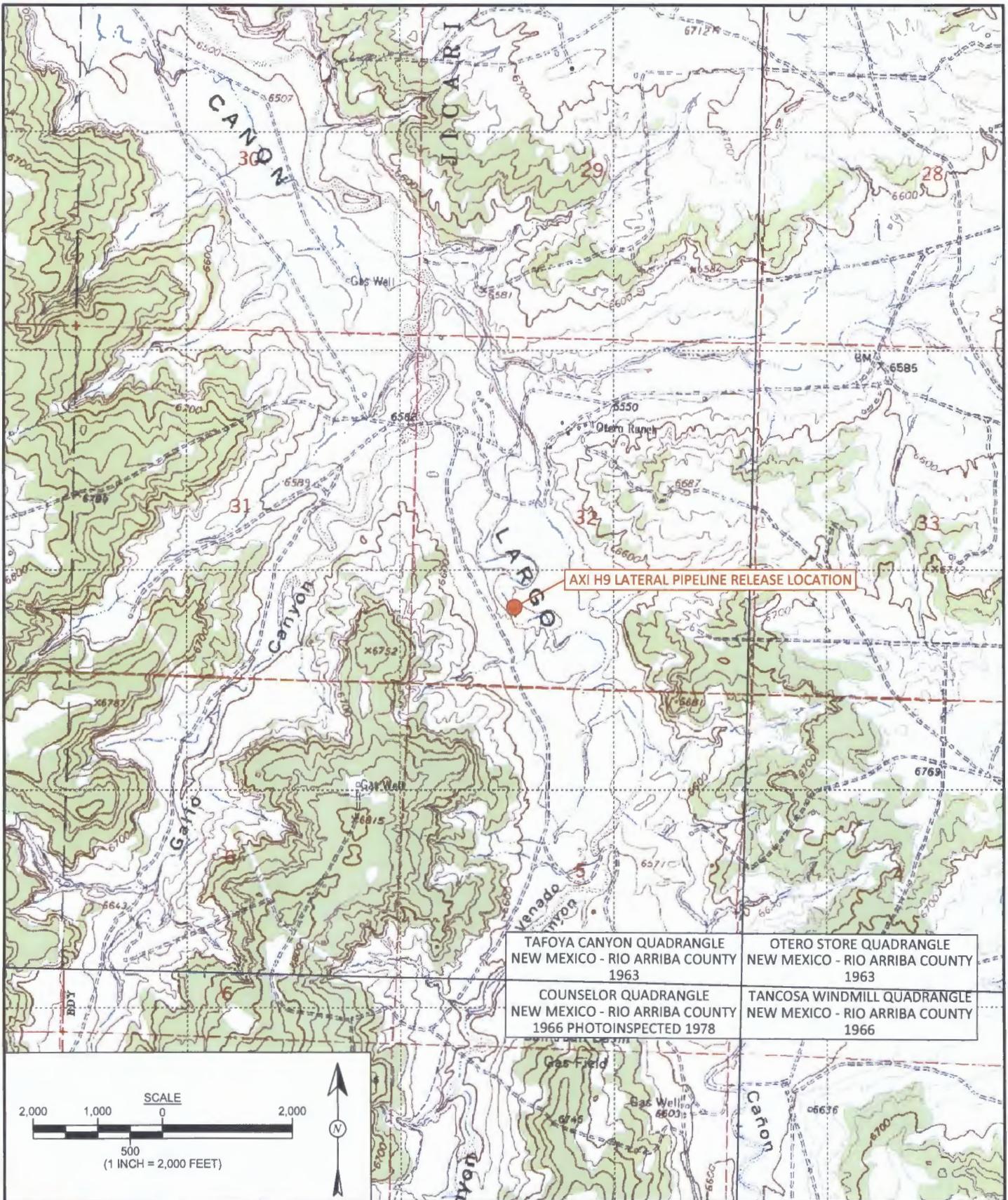
Elizabeth McNally, P.E.

#### Attachments:

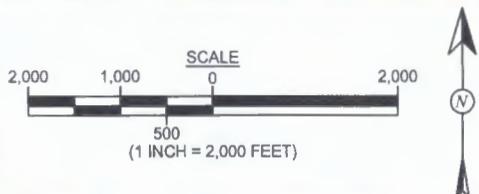
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Final Excavation Sample Locations and Results, July 2014

Photograph Log  
AES Field Sampling Report 070714  
Hall Laboratory Analytical Report 1407303

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Projects\Beeline\AXI H9 Lateral Release\Beeline AXI H9 Lateral Pipeline Release Final Excavation Report  
062415.docx



TAFOYA CANYON QUADRANGLE NEW MEXICO - RIO ARRIBA COUNTY 1963	OTERO STORE QUADRANGLE NEW MEXICO - RIO ARRIBA COUNTY 1963
COUNSELOR QUADRANGLE NEW MEXICO - RIO ARRIBA COUNTY 1966 PHOTOINSPECTED 1978	TANCOSA WINDMILL QUADRANGLE NEW MEXICO - RIO ARRIBA COUNTY 1966



<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> July 8, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 14, 2015
<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> April 14, 2015
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 14, 2015

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
 BEELINE GAS SYSTEMS  
 AXI H9 LATERAL PIPELINE RELEASE  
 SE¼ SW¼, SECTION 32, T24N, R5W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.2654S, W107.38722



Animas Environmental Services, LLC

<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> July 8, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 14, 2015
<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> April 14, 2015
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 14, 2015

**FIGURE 2**

**AERIAL SITE MAP**  
 BEELINE GAS SYSTEMS  
 AXI H9 LATERAL PIPELINE RELEASE  
 SE¼ SW¼, SECTION 32, T24N, R5W  
 RIO ARriba COUNTY, NEW MEXICO  
 N36.26545, W107.38722

**FIGURE 3**

**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS JULY 2014**  
 BEELINE GAS SYSTEMS  
 AXI H9 LATERAL PIPELINE RELEASE  
 SE¼ SW¼, SECTION 32, T24N, R5W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.2654S, W107.38722



Animas Environmental Services, LLC

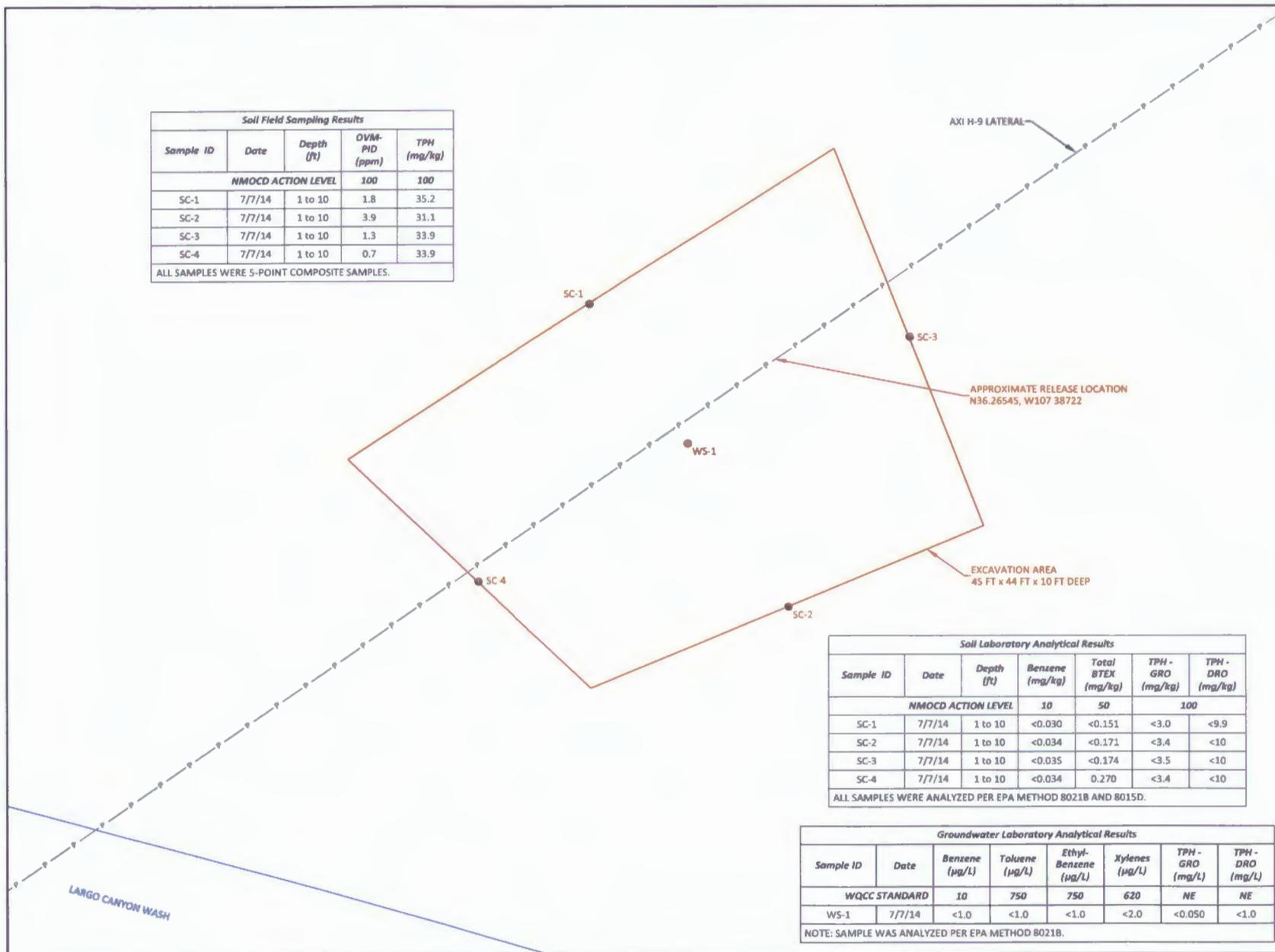
<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> July 17, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 14, 2015
<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> April 14, 2015
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 14, 2015

**LEGEND**

- SAMPLE LOCATIONS
- x — BURIED PIPELINE (APPROXIMATE)

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>100</b>	<b>100</b>
SC-1	7/7/14	1 to 10	1.8	35.2
SC-2	7/7/14	1 to 10	3.9	31.1
SC-3	7/7/14	1 to 10	1.3	33.9
SC-4	7/7/14	1 to 10	0.7	33.9

ALL SAMPLES WERE 5-POINT COMPOSITE SAMPLES.



Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	7/7/14	1 to 10	<0.030	<0.151	<3.0	<9.9
SC-2	7/7/14	1 to 10	<0.034	<0.171	<3.4	<10
SC-3	7/7/14	1 to 10	<0.035	<0.174	<3.5	<10
SC-4	7/7/14	1 to 10	<0.034	0.270	<3.4	<10

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	TPH - GRO (mg/L)	TPH - DRO (mg/L)
<b>WQCC STANDARD</b>		<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>NE</b>	<b>NE</b>
WS-1	7/7/14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

NOTE: SAMPLE WAS ANALYZED PER EPA METHOD 8021B.

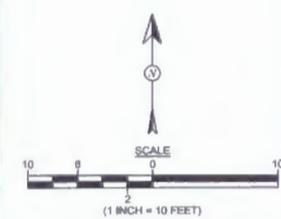


Photo #1	
Client: Beeline Gas Systems	
Project Name: AXI H9 Lateral Pipeline Release  Rio Arriba County, NM	
Date Photo Taken: July 7, 2014	
Release GPS and Location: 36.26545, -107.38722  SE¼ SW¼, Section 32, T24N, R5W	
Taken by: Stephanie Hinds, AES	

Photo #2	
Client: Beeline Gas Systems	
Project Name: AXI H9 Lateral Pipeline Release  Rio Arriba County, NM	
Date Photo Taken: July 7, 2014	
Release GPS and Location: 36.26545, -107.38722  SE¼ SW¼, Section 32, T24N, R5W	
Taken by: Stephanie Hinds, AES	

<p><b>Photo #3</b></p>	
<p><b>Client:</b> Beeline Gas Systems</p>	
<p><b>Project Name:</b> AXI H9 Lateral Pipeline Release</p> <p>Rio Arriba County, NM</p>	
<p><b>Date Photo Taken:</b> July 7, 2014</p>	
<p><b>Release GPS and Location:</b> 36.26545, -107.38722</p> <p>SE¼ SW¼, Section 32, T24N, R5W</p>	
<p><b>Taken by:</b> Stephanie Hinds, AES</p>	

# AES Field Sampling Report

Animas Environmental Services, LLC



Client: Beeline

Project Location: AXI H9 Lateral Pipeline Release

Date: 7/7/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	7/7/2014	11:40	North Wall	1.8	13:05	35.2	20.0	1	SAH
SC-2	7/7/2014	11:45	South Wall	3.9	13:08	31.1	20.0	1	SAH
SC-3	7/7/2014	11:50	East Wall	1.3	13:11	33.9	20.0	1	SAH
SC-4	7/7/2014	11:55	West Wall	0.7	13:13	33.9	20.0	1	SAH

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Stephanie A. Hinds*



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

July 10, 2014

Kelsey Christiansen  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Beeline AXI H9 Lateral

OrderNo.: 1407303

Dear Kelsey Christiansen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/8/2014 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services      Client Sample ID: SC-1  
 Project: Beeline AXI H9 Lateral      Collection Date: 7/7/2014 11:40:00 AM  
 Lab ID: 1407303-001      Matrix: SOIL      Received Date: 7/8/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/8/2014 10:15:28 AM	14101
Surr: DNOP	89.0	57.9-140		%REC	1	7/8/2014 10:15:28 AM	14101
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	7/8/2014 10:54:05 AM	R19741
Surr: BFB	90.0	80-120		%REC	1	7/8/2014 10:54:05 AM	R19741
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.030		mg/Kg	1	7/8/2014 10:54:05 AM	R19741
Toluene	ND	0.030		mg/Kg	1	7/8/2014 10:54:05 AM	R19741
Ethylbenzene	ND	0.030		mg/Kg	1	7/8/2014 10:54:05 AM	R19741
Xylenes, Total	ND	0.061		mg/Kg	1	7/8/2014 10:54:05 AM	R19741
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	7/8/2014 10:54:05 AM	R19741

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 11
	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	
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services      **Client Sample ID:** SC-2  
**Project:** Beeline AXI H9 Lateral      **Collection Date:** 7/7/2014 11:45:00 AM  
**Lab ID:** 1407303-002      **Matrix:** SOIL      **Received Date:** 7/8/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2014 11:20:56 AM	14101
Surr: DNOP	89.7	57.9-140		%REC	1	7/8/2014 11:20:56 AM	14101
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	7/8/2014 11:22:47 AM	R19741
Surr: BFB	90.8	80-120		%REC	1	7/8/2014 11:22:47 AM	R19741
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.034		mg/Kg	1	7/8/2014 11:22:47 AM	R19741
Toluene	ND	0.034		mg/Kg	1	7/8/2014 11:22:47 AM	R19741
Ethylbenzene	ND	0.034		mg/Kg	1	7/8/2014 11:22:47 AM	R19741
Xylenes, Total	ND	0.069		mg/Kg	1	7/8/2014 11:22:47 AM	R19741
Surr: 4-Bromofluorobenzene	98.7	80-120		%REC	1	7/8/2014 11:22:47 AM	R19741

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-3

**Project:** Beeline AXI H9 Lateral

**Collection Date:** 7/7/2014 11:50:00 AM

**Lab ID:** 1407303-003

**Matrix:** SOIL

**Received Date:** 7/8/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2014 11:42:52 AM	14101
Surr: DNOP	92.0	57.9-140		%REC	1	7/8/2014 11:42:52 AM	14101
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/8/2014 11:51:25 AM	R19741
Surr: BFB	89.7	80-120		%REC	1	7/8/2014 11:51:25 AM	R19741
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.035		mg/Kg	1	7/8/2014 11:51:25 AM	R19741
Toluene	ND	0.035		mg/Kg	1	7/8/2014 11:51:25 AM	R19741
Ethylbenzene	ND	0.035		mg/Kg	1	7/8/2014 11:51:25 AM	R19741
Xylenes, Total	ND	0.069		mg/Kg	1	7/8/2014 11:51:25 AM	R19741
Surr: 4-Bromofluorobenzene	97.4	80-120		%REC	1	7/8/2014 11:51:25 AM	R19741

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 3 of 11
	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	
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services      **Client Sample ID:** SC-4  
**Project:** Beeline AXI H9 Lateral      **Collection Date:** 7/7/2014 11:55:00 AM  
**Lab ID:** 1407303-004      **Matrix:** SOIL      **Received Date:** 7/8/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2014 12:04:50 PM	14101
Surr: DNOP	89.9	57.9-140		%REC	1	7/8/2014 12:04:50 PM	14101
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	7/8/2014 12:20:03 PM	R19741
Surr: BFB	95.3	80-120		%REC	1	7/8/2014 12:20:03 PM	R19741
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.034		mg/Kg	1	7/8/2014 12:20:03 PM	R19741
Toluene	0.070	0.034		mg/Kg	1	7/8/2014 12:20:03 PM	R19741
Ethylbenzene	ND	0.034		mg/Kg	1	7/8/2014 12:20:03 PM	R19741
Xylenes, Total	0.20	0.067		mg/Kg	1	7/8/2014 12:20:03 PM	R19741
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	7/8/2014 12:20:03 PM	R19741

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH greater than 2
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: WS-1

Project: Beeline AXI H9 Lateral

Collection Date: 7/7/2014 1:45:00 PM

Lab ID: 1407303-005

Matrix: AQUEOUS

Received Date: 7/8/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/8/2014 12:06:00 PM	14102
Surr: DNOP	92.6	62.7-145		%REC	1	7/8/2014 12:06:00 PM	14102
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/8/2014 10:29:51 AM	R19740
Surr: BFB	98.3	70.9-130		%REC	1	7/8/2014 10:29:51 AM	R19740
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.0		µg/L	1	7/8/2014 10:29:51 AM	R19740
Toluene	ND	1.0		µg/L	1	7/8/2014 10:29:51 AM	R19740
Ethylbenzene	ND	1.0		µg/L	1	7/8/2014 10:29:51 AM	R19740
Xylenes, Total	ND	2.0		µg/L	1	7/8/2014 10:29:51 AM	R19740
Surr: 4-Bromofluorobenzene	112	82.9-139		%REC	1	7/8/2014 10:29:51 AM	R19740

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	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#: 1407303

10-Jul-14

Client: Animas Environmental Services

Project: Beeline AXI H9 Lateral

Sample ID	<b>LCS-14101</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>14101</b>	RunNo:	<b>19731</b>					
Prep Date:	<b>7/8/2014</b>	Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573226</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	68.6	130			
Surr: DNOP	4.0		5.000		80.6	57.9	140			

Sample ID	<b>MB-14101</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>14101</b>	RunNo:	<b>19731</b>					
Prep Date:	<b>7/8/2014</b>	Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573302</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.3		10.00		83.2	57.9	140			

Sample ID	<b>1407303-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>SC-1</b>	Batch ID:	<b>14101</b>	RunNo:	<b>19731</b>					
Prep Date:	<b>7/8/2014</b>	Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573308</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.10	0	97.0	40.1	152			
Surr: DNOP	4.3		5.010		85.8	57.9	140			

Sample ID	<b>1407303-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>SC-1</b>	Batch ID:	<b>14101</b>	RunNo:	<b>19731</b>					
Prep Date:	<b>7/8/2014</b>	Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573309</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	40.1	152	6.16	32.1	
Surr: DNOP	4.3		5.000		85.9	57.9	140	0	0	

### 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407303

10-Jul-14

**Client:** Animas Environmental Services

**Project:** Beeline AXI H9 Lateral

Sample ID	<b>MB-14102</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>14102</b>	RunNo:	<b>19730</b>					
Prep Date:	<b>7/8/2014</b>	Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573299</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.1		1.000		106	62.7	145			

Sample ID	<b>LCS-14102</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>14102</b>	RunNo:	<b>19730</b>					
Prep Date:	<b>7/8/2014</b>	Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573300</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	120	78.6	146			
Surr: DNOP	0.45		0.5000		89.9	62.7	145			

Sample ID	<b>LCSD-14102</b>	SampType:	<b>LCSD</b>	TestCode:	<b>EPA Method 8015D: Diesel Range</b>					
Client ID:	<b>LCSS02</b>	Batch ID:	<b>14102</b>	RunNo:	<b>19730</b>					
Prep Date:	<b>7/8/2014</b>	Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573301</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	110	78.6	146	8.76	26.5	
Surr: DNOP	0.42		0.5000		83.9	62.7	145	0	0	

**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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407303

10-Jul-14

**Client:** Animas Environmental Services

**Project:** Beeline AXI H9 Lateral

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R19741</b>	RunNo:	<b>19741</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573750</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.5	80	120			

Sample ID	<b>2.5UG GRO LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R19741</b>	RunNo:	<b>19741</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573751</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	75.0	71.7	134			
Surr: BFB	950		1000		95.0	80	120			

Sample ID	<b>1407303-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>SC-1</b>	Batch ID:	<b>R19741</b>	RunNo:	<b>19741</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573753</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.0	15.13	0	135	71.8	132			S
Surr: BFB	620		605.3		102	80	120			

Sample ID	<b>1407303-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>SC-1</b>	Batch ID:	<b>R19741</b>	RunNo:	<b>19741</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573754</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.0	15.13	0	113	71.8	132	18.0	20	
Surr: BFB	610		605.3		101	80	120	0	0	

**Qualifiers:**

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- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407303  
10-Jul-14

**Client:** Animas Environmental Services  
**Project:** Beeline AXI H9 Lateral

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>R19740</b>	RunNo:	<b>19740</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573773</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		90.6	70.9	130			

Sample ID	<b>2.5UG GRO LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>R19740</b>	RunNo:	<b>19740</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573774</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.7	80	120			
Surr: BFB	22		20.00		110	70.9	130			

### Qualifiers:

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- 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1407303

10-Jul-14

Client: Animas Environmental Services

Project: Beeline AXI H9 Lateral

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R19741</b>	RunNo:	<b>19741</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573761</b>	Units:	<b>mg/Kg</b>			
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	0.95		1.000		94.8	80	120			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R19741</b>	RunNo:	<b>19741</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573762</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	94.9	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

### Qualifiers:

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- 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407303

10-Jul-14

Client: Animas Environmental Services

Project: Beeline AXI H9 Lateral

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>R19740</b>	RunNo:	<b>19740</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573788</b>	Units:	<b>µg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		103	82.9	139			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>R19740</b>	RunNo:	<b>19740</b>					
Prep Date:		Analysis Date:	<b>7/8/2014</b>	SeqNo:	<b>573789</b>	Units:	<b>µg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.9	80	120			
Toluene	20	1.0	20.00	0	98.0	80	120			
Ethylbenzene	20	1.0	20.00	0	97.5	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		118	82.9	139			

## Qualifiers:

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- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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- P Sample pH greater than 2.
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1407303

RcptNo: 1

Received by/date: \_\_\_\_\_

Logged By: Anne Thorne 7/8/2014 7:55:00 AM *Anne Thorne*

Completed By: Anne Thorne 7/8/2014 *Anne Thorne*

Reviewed By: *mg* 07/08/14

**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 the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

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

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes			

# Chain-of-Custody Record

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) \_\_\_\_\_

Turn-Around Time:  
 Standard  Rush same day

Project Name: Beehive AXI H9 Lateral

Project #:

Project Manager: K. Christiansen

Sampler: S. Lynn  
On Ice:  Yes  No

Sample Temperature: 27



## 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	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THMs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO/DRO/THMs)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
7-7-14	11:40	Soil	SC-1	MED H RT 1-4oz	MeOH cold	1401303 201	X		X									
7-7-14	11:45	Soil	SC-2	↓	↓	202	X		X									
7-7-14	11:50	Soil	SC-3	↓	↓	203	X		X									
7-7-14	11:55	Soil	SC-4	↓	↓	204	X		X									
7-7-14	13:45	H <sub>2</sub> O	WS-1	5-40mL 1-4oz	HCC cold	205	X		X									

Date: 7/7/14 Time: 1645 Relinquished by: Stephanie Flynn

Date: 7/7/14 Time: 1740 Relinquished by: Christina Waelen

Received by: [Signature] Date: 7/7/14 Time: 1645

Received by: [Signature] Date: 07/08/14 Time: 0755

Remarks: Call if questions.

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.

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 CONS. DIV DIST. 3

JUL 24 2015

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Marcus Compressor Station	Facility Type: Compressor Station
Surface Owner: BLM	Mineral Owner: BLM
API No.	

**LOCATION OF RELEASE**

Unit Letter A	Section 11	Township 23N	Range 7W	Feet from the 560'	North/South Line NORTH	Feet from the 496'	East/West Line EAST	County RIO ARRIBA
------------------	---------------	-----------------	-------------	-----------------------	---------------------------	-----------------------	------------------------	----------------------

Latitude 36°14.728 Longitude 107°32.283

**NATURE OF RELEASE**

Type of Release: Produced Liquids	Volume of Release: unknown	Volume Recovered: 0
Source of Release: Buried Pit	Date and Hour of Occurrence n/a	Date and hour of discovery 9/20/2011 1046
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell	
By Whom? Cory Smith	Date and Hour 9/20/2011 1420	
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.* After excavation was under way, it was discovered that there was a buried pit that had corroded and liquids had impacted the area. Originally it was thought that when storage tanks were being moved that one of them had leaked. It did not appear to be the case however. Excavation and removal of contaminated soil along with soil sampling were conducted.		
Describe Area Affected and Cleanup Action Taken.* See attached diagram in final report from Animas. Excavation and clean up conducted. Soil samples were taken, removal of pit was completed as well.		

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: <i>Dianna Lee</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Regulatory Administrator	Approval Date: <i>7/12/15</i>	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 20, 2015	Phone: 505-330-2736	

#W3K 1129 139798

*(50)*

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



**COPY**

Form C-141  
Revised October 10, 2003

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

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Elm Ridge Exploration Co., LLC d.b.a Beeline Gas Systems	Contact Cory Smith
Address 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. (505)634-1144
Facility Name Marcus Compressor Station	Facility Type Natural Gas Compressor Station
Surface Owner Bureau of Land Management	Mineral Owner Federal
Lease No. NM NM-104544	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	11	23N	7W	560'	North	496'	East	Rio Arriba

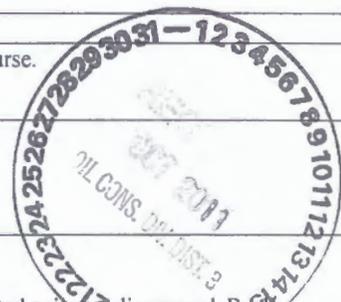
Latitude 36° 14.728' Longitude 107° 32.283'

**NATURE OF RELEASE**

Type of Release begins Produced Liquids	Volume of Release UNK	Volume Recovered 0
Source of Release UNK	Date and Hour of Occurrence N/A	Date and Hour of Discovery 9/20/11 1046
Was Immediate Notice Given? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required <input type="checkbox"/>	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Cory Smith	Date and Hour 9/20/11, 1420	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**OIL CONS. DIV DIST. 3**

**JUL 24 2015**



If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Beeline was in the process of putting into service two 400 bbl production tanks when what appeared to be contaminated soil was discovered. Beeline believes the contamination could be from production tanks from the previous operator. To reduce downtime the tanks will be brought online and the current plan of action is to remove the two out of service 300 bbl tanks during the week of October 3, 2011 (weather permitting) and check for leaks underneath the tanks. Brandon Powell of the NMOCD has been asked to be notified before any excavation has commenced.

Describe Area Affected and Cleanup Action Taken.\*  
North East corner of site near/under produced liquids storage tanks estimated to be an area 65' x 25' with an unknown depth.

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Cory Smith	Approved by District Supervisor:	
Title: Regulatory Compliance	Approval Date:	Expiration Date:
E-mail Address: csmith@elmridge.net	Conditions of Approval:	
Date: October 5, 2011	Phone: (505) 634-1144	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

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

Form C-138  
Revised March 12, 2007

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

\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

<b>1. Generator Name and Address:</b> Elm Ridge Exploration Co, LLC d.b.a Beeline Gas Systems, 2001 E. Blanco Blvd., Bloomfield, NM 87401	<b>OH CONS. DIV DIST. 3</b>
<b>2. Originating Site:</b> Marcus Compressor Station	<b>JUL 24 2015</b>
<b>3. Location of Material (Street Address, City, State or ULSTR):</b> #116 CR 378 Lybrook, NM 87018 Unit A, Sect 11, T-23-N, R-7-W, Rio Arriba County, NM, N:36° 14.173', W: 107° 32.246'	
<b>4. Source and Description of Waste:</b> Contaminated soil was discovered during trenching operations. The source of the spill is an above grade storage tank that holds produced fluids generated from the station and pipeline.  Estimated Volume <u>150</u> yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd <sup>3</sup> / bbls	
<b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b> I, <u>Cory Smith</u> , representative or authorized agent for <u>Elm Ridge Exploration Co, LLC</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)  <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> Weekly <input type="checkbox"/> Per Load  <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
<b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b> I, <u>Cory Smith</u> , representative for <u>Elm Ridge Exploration Co., LLC d.b.a Beeline Gas Systems</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
<b>5. Transporter:</b>	

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: Hilltop, New Mexico

Method of Treatment and/or Disposal:

Evaporation  Injection  Treating Plant  Landfarm  Landfill  Other

**Waste Acceptance Status:**

**APPROVED**

**DENIED (Must Be Maintained As Permanent Record)**

PRINT NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ TELEPHONE NO.: 505-632-0615

Surface Waste Management Facility Authorized Agent





June 16, 2015

Dianna Lee  
Beeline Gas Systems  
2001 E. Blanco Blvd  
Bloomfield, New Mexico 87413

OIL CONS. DIV DIST. 3

JUL 24 2015

*Via electronic mail with delivery confirmation receipt to:*  
[BeelineRegulatory@elmridge.net](mailto:BeelineRegulatory@elmridge.net)

**RE: Release Assessment and Final Excavation Report  
Marcus Compressor Station  
Rio Arriba County, New Mexico**

Dear Ms. Lee:

On January 7, February 16 and April 20, 2015, Animas Environmental Services, LLC (AES) completed initial release assessments and environmental clearance of the final excavation limits at the Beeline Gas Systems (Beeline) Marcus Compressor Station, located in Rio Arriba County, New Mexico. The historic release consisted of an unknown quantity of contaminants and was discovered during a facility reset at the location and subsequently reported to the New Mexico Oil Conservation Division (NMOCD) in 2011. The initial release assessments were completed by AES on January 7 and February 16, 2015, and the final excavation clearance was completed while AES was at the location on April 20, 2015.

---

## 1.0 Site Information

### 1.1 Location

Site Name – Marcus Compressor Station

Location – NE¼ NE¼, Section 11, T23N, R7W, Rio Arriba County, New Mexico

Release Location Latitude/Longitude – N36.24546 and W107.53805, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, January 2015

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 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:** Approximately 1,800 feet east and southeast of the release location are two drainages that flow into Escrito Canyon and ultimately to Canyon Largo. (0 points)

The ranking score of 0 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 100 parts per million (ppm) volatile organic compound (VOCs), 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 5,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO) and motor oil range organics (MRO).

## 1.3 Assessment

In September 2011, stained soils were found beneath two 300 barrel (bbls) production tanks during a facility reset and were believed to be a historic release. A C-141 form was filed with the NMOCD, and an area of approximately 65 feet x 25 feet to an unknown depth was estimated to be impacted. Per the C-141, two new 400 bbls production tanks were put into operation to reduce downtime, and the replaced tanks were to be inspected for leaks. Brandon Powell of NMOCD requested to be notified prior to any excavation activities. Since the original reporting of the potentially contaminated soils in 2011, the facility has undergone multiple resets. Based upon information obtained from Google Earth® historical imagery and from Beeline personnel, AES determined the configuration of the location at the time the historic release was discovered.

AES was initially contacted by Dianna Lee of Beeline on December 16, 2014, and on January 7, 2015, AES personnel conducted an initial release assessment and collected 17 soil samples from three soil borings. Soil borings were terminated between 6.5 and 9.75 feet on sandstone. One soil boring (SB-1) was placed directly beneath the previous location of the production tanks; a second boring was placed down gradient of the previous tank location (SB-2); and the third boring was placed slightly up gradient to confine the outer limits of contaminated soil (SB-3). Soil boring SB-3 had the highest level of contamination with VOCs ranging from 0.0 ppm up to 4,599 ppm and field TPH concentrations ranging from 1,290

mg/kg up to 23,800 mg/kg. The high network density of marked and unmarked underground pipelines in the vicinity of SB-3 restricted continued investigation towards the compressor house (to the west) and tank (to the south) due to safety concerns associated with the buried lines, while access issues prevented delineation outside the facility fence line. Based on field sampling results, AES recommended further assessment of the release area outside the compressor station lease boundaries onto BLM lands. Sample locations are shown on Figure 3.

Beeline received approval from BLM on February 11, 2015, to determine the extent of contamination outside the lease boundaries of the Marcus Compressor Station. On February 16, 2015, AES returned to the location to collect additional soil samples on BLM lands between the facility lease lines and the service road. The field sampling activities included collection of 13 confirmation soil samples from three soil borings. Two soil borings (SB-4 and SB-5) were installed on BLM lands, and one soil boring (SB-6) was installed inside the fence closer to the compressor house. Based on the field sampling results, AES recommended the excavation of an area entirely within the Marcus Compressor Station facility. Sample locations are also shown on Figure 3.

On April 20, 2015, AES returned to the location to collect confirmation soil samples of the excavation. Shari Ketchum of BLM and Dianna Lee of Beeline were on location to provide excavation oversight. During excavation activities, a backhoe and ripper attachment was used to break up the sandstone layer to determine the true vertical extent of contamination within the bedrock. The field sampling activities included collection of seven confirmation soil samples (SC-1 through SC-7) from the walls and base of the excavation. The area of the final excavation measured approximately 38 feet by 49 feet by 15 to 22 feet in depth and was terminated within the sandstone layer. The excavation was backfilled with clean, imported material. Petroleum impacted soil was transported to the Envirotech Landfarm for proper disposal. The Envirotech Bill of Lading (Waste Manifest #51500) is attached. Sample locations and final excavation extents are presented on Figure 4.

---

## 2.0 Soil Sampling

A total of 30 soil samples from 6 borings (SB-1 through SB-6) and 7 composite samples (SC-1 through SC-7) 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 samples (SB-1 and SB-3) collected during the initial assessment and all composite samples (SC-1 through SC-7) 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:

- BTEX per USEPA Method 8021B.

In addition, soil samples SB-3 and SC-1 through SC-7 were laboratory analyzed for:

- TPH as GRO, DRO, and MRO per USEPA Method 8015D.

## 2.3 Field and Laboratory Analytical Results

On January 7 and February 16, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in SB-2 through SB-6 up to 4,599 ppm in SB-3. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-4 through SB-6 up to 23,800 mg/kg in SB-3.

On April 20, 2015, final excavation field screening results for VOCs via OVM ranged from 0.0 ppm in SC-5 up to 1,572 ppm in SC-7. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-2, SC-5, and SC-6 up to 2,530 mg/kg in SC-7. 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  
 Marcus Compressor Station Initial Release Assessments and Final Excavation  
 January, February and April 2015**

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>TPH 418.1 (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>100</i>	<i>5,000</i>
SB-1	1/7/15	0.5	22.0	NA
		2	27.2	NA
		4	38.4	23.3
		6.5	22.4	34.2
		8	27.8	NA
		9.75	<b>3,303</b>	186
SB-2	1/7/15	0.5	13.0	NA
		2	5.9	30.1
		4	0.0	27.4
		5.5	<b>535</b>	1,790
		6.5	<b>542</b>	604
SB-3	1/7/15	0.5	0.0	NA
		2	0.8	1,290
		3	<b>3,467</b>	<b>5,890</b>
		5	<b>4,599</b>	<b>14,100</b>
		7	<b>4,042</b>	<b>23,800</b>
		8	<b>3,998</b>	<b>17,700</b>
SB-4	2/16/15	0.5	0.1	NA
		2	0.0	NA
		4	0.0	<20.0
		6	0.0	<20.0
SB-5	2/16/15	0.5	0.0	NA
		2	0.0	NA
		4	0.0	NA
		5	0.0	<20.0
SB-6	2/16/15	Surface	0.0	NA
		2	0.0	NA

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>VOCs via OVM (ppm)</b>	<b>TPH 418.1 (mg/kg)</b>
<i>NMOCD Action Level*</i>			100	5,000
SB-6	2/16/15	4	0.0	<20.0
		6	0.1	NA
		8	0.0	<20.0
SC-1	4/20/15	1 to 15	0.2	154
SC-2	4/20/15	1 to 15	845	<20.0
SC-3	4/20/15	1 to 15	39.2	933
SC-4	4/20/15	1 to 15	0.1	49.7
SC-5	4/20/15	1 to 15	0.0	<20.0
SC-6	4/20/15	1 to 15	112	<20.0
SC-7	4/20/15	15 to 22	1,572	2,530

NA - not analyzed

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

Laboratory analyses for SB-1, and SB-3 were used to confirm field sampling results of the initial release assessment. Benzene concentrations were reported below laboratory detection limits in SB-1 and at 1.2 mg/kg in SB-3. Total BTEX concentrations were reported as 0.53 mg/kg (SB-1) and 127 mg/kg (SB-3). TPH concentrations as GRO/DRO/MRO were reported in SB-3 at 14,600 mg/kg.

Laboratory analyses for SC-1 through SC-7 were used to confirm field sampling results from the final excavation. Benzene concentrations were reported below laboratory detection limits in all samples. Total BTEX concentrations ranged from below detection limits in SC-1 and SC-3 through SC-6 up to 5.11 mg/kg in SC-7. TPH concentrations as GRO/DRO/MRO ranged from below the laboratory detection limits in SC-1, SC-5 and SC-6 up to 1,870 mg/kg in SC-7. 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  
 Marcus Compressor Initial Release Assessments and Final Excavation  
 January, February and April 2015

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>	<i>MRO (mg/kg)</i>
<i>NMOCD Action Level*</i>			10	50		5,000	
SB-1	1/7/15	9.75	<0.049	0.53	NA	NA	NA
SB-3	1/7/15	7	1.2	127	1,900	7,400	5,300
SC-1	4/20/15	1 to 15	<0.047	<0.236	<4.7	<9.9	<50
SC-2	4/20/15	1 to 15	<0.050	0.17	7.2	12	<49
SC-3	4/20/15	1 to 15	<0.048	<0.240	<4.8	160	1,200
SC-4	4/20/15	1 to 15	<0.047	<0.235	<4.7	<10	96
SC-5	4/20/15	1 to 15	<0.049	<0.244	<4.9	<9.9	<50
SC-6	4/20/15	1 to 15	<0.049	<0.245	<4.9	<9.8	<49
SC-7	4/20/15	15 to 22	<0.088	5.11	200	860	810

NA - not analyzed

\*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 January 7 and February 16, 2015, AES conducted initial assessments of petroleum contaminated soils associated with a historic release at the Marcus Compressor Station. 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-1, SB-2, and SB-3. The highest VOC and TPH concentrations were reported in SB-3 with 4,599 ppm and 23,800 mg/kg, respectively. Laboratory analyses for SB-1 and 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, in SB-1. Total BTEX concentrations in SB-3 were reported above NMOCD action levels with 127 mg/kg. TPH concentrations as GRO/DRO/MRO exceeded the NMOCD action level of 5,000 mg/kg in SB-3 with 14,600 mg/kg.

On April 20, 2015, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable

NMOCD action levels for the final walls of the excavation, except for SC-2 (southeast wall) and SC-6 (east wall) which had VOC concentrations of 845 ppm and 112 ppm, respectively. The base of the excavation (SC-7) also exceeded NMOCD action levels with 1,572 ppm. In contrast, field TPH concentrations were below the applicable NMOCD action level of 5,000 mg/kg for the final walls and base of the excavation. Laboratory analytical results for benzene, total BTEX, and TPH concentrations as GRO/DRO/MRO were reported below NMOCD action levels in all samples.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Marcus Compressor Station, 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 me at (505) 564-2281.

Sincerely,



Emilee Skyles  
Geologist

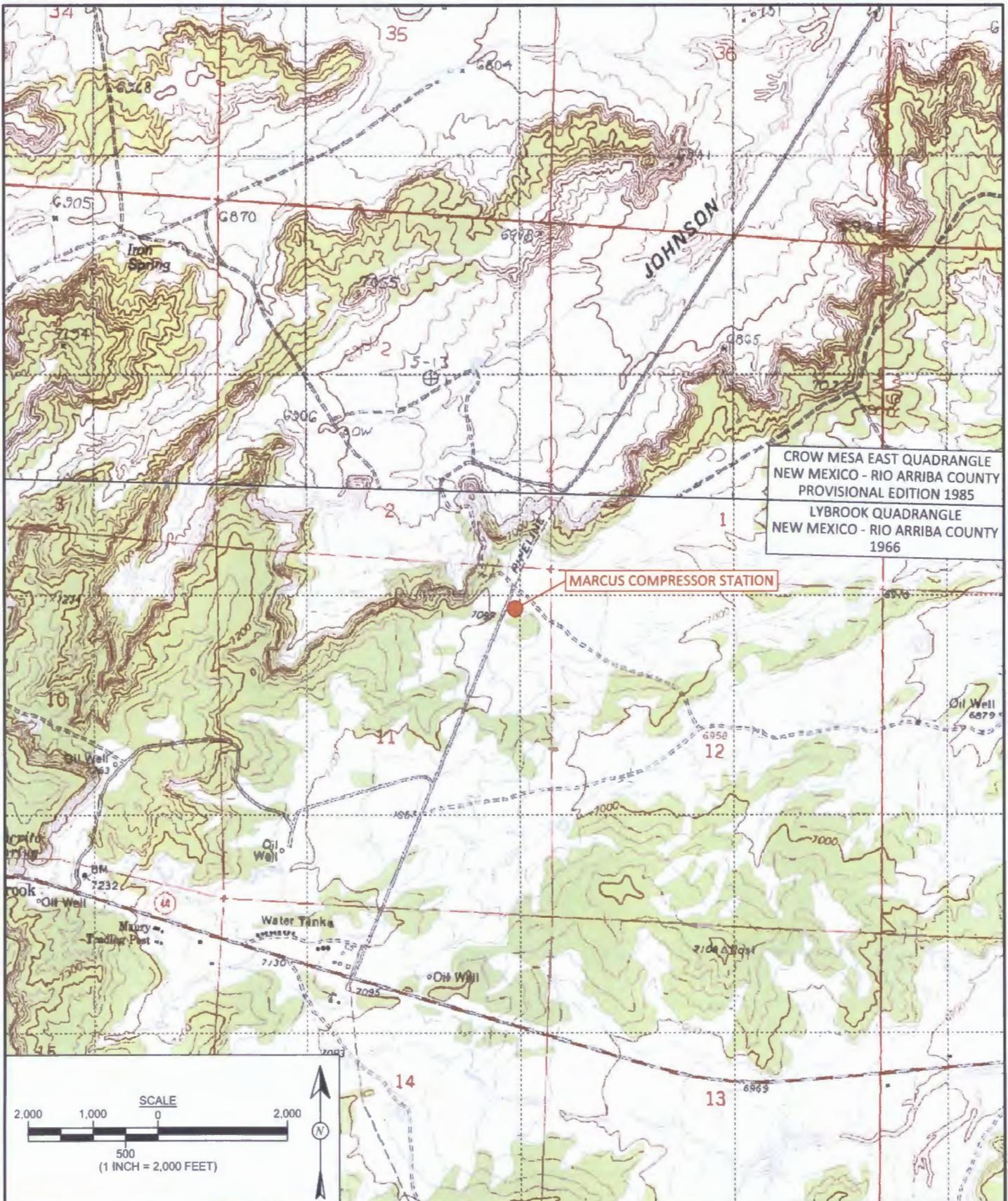


Elizabeth McNally, PE

Attachments:

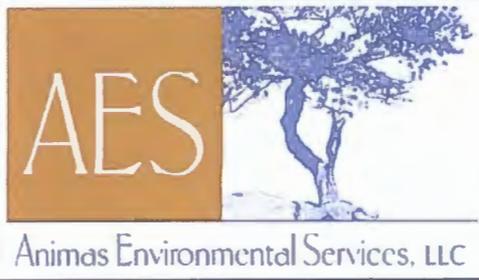
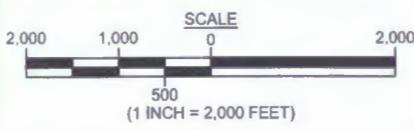
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, January 2015
- Figure 3. Release Assessment Sample Locations and Results, January and February 2015
- Figure 4. Final Excavation Sample Locations and Results, April 2015
- Bill of Lading (Waste Manifest #51500)
- AES Field Sampling Report 010715
- AES Field Sampling Report 021615
- AES Field Sampling Report 042015
- Hall Laboratory Analytical Report 1501230
- Hall Laboratory Analytical Report 1504849
- Hall Laboratory Analytical Report 1504867

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Projects\Beeline\Marcus Compressor Station\Beeline Marcus Compressor Release and Final Excavation Report  
061615.docx



CROW MESA EAST QUADRANGLE  
 NEW MEXICO - RIO ARRIBA COUNTY  
 PROVISIONAL EDITION 1985  
 LYBROOK QUADRANGLE  
 NEW MEXICO - RIO ARRIBA COUNTY  
 1966

MARCUS COMPRESSOR STATION



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 14, 2015
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 14, 2015
<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> January 14, 2015
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 14, 2015

**FIGURE 1**  
**TOPOGRAPHIC SITE LOCATION MAP**  
 BEELINE GAS SYSTEMS  
 MARCUS COMPRESSOR STATION  
 NE¼ NE¼, SECTION 11, T23N, R7W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.24546, W107.53805



## FIGURE 2

**AERIAL SITE MAP  
JANUARY 2015**  
**HISTORIC RELEASE DISCOVERED SEPTEMBER 2011**  
 BEELINE GAS SYSTEMS  
 MARCUS COMPRESSOR STATION  
 NE¼ NE¼, SECTION 11, T23N, R7W  
 RIO ARriba COUNTY, NEW MEXICO  
 N36.24546, W107.53805



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 14, 2015
<b>REVISIONS BY:</b> S. Jones	<b>DATE REVISED:</b> January 26, 2015
<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> January 26, 2015
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 26, 2015







envirotech

Bill of Lading

MANIFEST # 51500
GENERATOR El Rio de Puelo
POINT OF ORIGIN MARGUS COAL Station
TRANSPORTER HAIO
DATE 4-17-15 JOB # 07152-0017

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLS), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Contains 5 rows of shipment data and a summary row for 50 YDS.

RESULTS section including CHLORIDE TEST (2), PAINT FILTER TEST (2), LANDFARM EMPLOYEE signature, and NOTES: ENTERED APR 2 9 2015

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

RECEIVED APR 2 6 2015

Generator Onsite Contact \_\_\_\_\_ Phone \_\_\_\_\_

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer Copy, RECEIVED APR 2 9 2015

# AES Field Sampling Report

Animas Environmental Services, LLC



Client: Beeline Gas Systems

Project Location: Marcus Compressor Station

Date: 1/7/2015

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 @ 0.5'	1/7/2015	9:40	22.0	Not Analyzed for TPH				
SB-1 @ 2'	1/7/2015	9:50	27.2	Not Analyzed for TPH				
SB-1 @ 4'	1/7/2015	9:55	38.4	23.3	10:28	20.0	1	EMS
SB-1 @ 6.5'	1/7/2015	12:38	22.4	34.2	13:14	20.0	1	EMS
SB-1 @ 8'	1/7/2015	12:42	27.8	Not Analyzed for TPH				
SB-1 @ 9.75'	1/7/2015	12:45	3,303	186	13:16	20.0	1	EMS
SB-2 @ 0.5'	1/7/2015	10:15	13.0	Not Analyzed for TPH				
SB-2 @ 2'	1/7/2015	10:20	5.9	30.1	11:13	20.0	1	EMS
SB-2 @ 4'	1/7/2015	10:25	0.0	27.4	11:15	20.0	1	EMS
SB-2 @ 5.5'	1/7/2015	12:00	535	1,785	12:30	20.0	1	EMS
SB-2 @ 6.5'	1/7/2015	12:03	542	604	12:32	20.0	1	EMS
SB-3 @ 0.5'	1/7/2015	10:30	0.0	Not Analyzed for TPH				
SB-3 @ 2'	1/7/2015	10:32	0.8	1,291	11:50	20.0	1	EMS
SB-3 @ 3'	1/7/2015	10:38	3,467	5,888	11:56	200.0	100	EMS

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-3 @ 5'	1/7/2015	10:45	4,599	14,092	11:43	200.0	100	EMS
SB-3 @ 7'	1/7/2015	11:10	4,042	23,789	12:03	200.0	100	EMS
SB-3 @ 8'	1/7/2015	11:15	3,998	17,659	12:10	200.0	100	EMS

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: *Emil SkL*

# AES Field Sampling Report

Animas Environmental Services, LLC



Client: Beeline Gas Systems

Project Location: Marcus Compressor Station

Date: 2/16/2015

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-4 @ 0.5'	2/16/2015	10:59	0.1	Not Analyzed for TPH				
SB-4 @ 2'	2/16/2015	11:05	0.0	Not Analyzed for TPH				
SB-4 @ 4'	2/16/2015	11:08	0.0	4.4	11:44	20.0	1	EMS
SB-4 @ 6'	2/16/2015	11:15	0.0	3.0	11:47	20.0	1	EMS
SB-5 @ 0.5'	2/16/2015	11:20	0.0	Not Analyzed for TPH				
SB-5 @ 2'	2/16/2015	11:25	0.0	Not Analyzed for TPH				
SB-5 @ 4'	2/16/2015	11:28	0.0	Not Analyzed for TPH				
SB-5 @ 5'	2/16/2015	11:34	0.0	5.7	11:49	20.0	1	EMS
SB-6 @ 0.5'	2/16/2015	11:45	0.0	Not Analyzed for TPH				
SB-6 @ 2'	2/16/2015	11:48	0.0	Not Analyzed for TPH				
SB-6 @ 4'	2/16/2015	11:50	0.0	0.32	12:12	20.0	1	EMS
SB-6 @ 6'	2/16/2015	11:52	0.1	Not Analyzed for TPH				
SB-6 @ 8'	2/16/2015	11:56	0.0	1.7	12:15	20.0	1	EMS

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
-----------	-----------------	-----------------	-----------	--------------------	-------------------------	-----------------	----	-----------------------

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

\*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - US EPA 418.1

Analyst: *Smith Skyl*

# AES Field Sampling Report

Animas Environmental Services, LLC



Client: Beeline Gas Systems

Project Location: Marcus Compressor Station

Date: 4/20/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/20/2015	10:40	South (west) Wall	0.2	154	11:15	20.0	1	DD
SC-2	4/20/2015	10:45	South (east) Wall	845	10.5	11:18	20.0	1	DD
SC-3	4/20/2015	11:06	West (south) Wall	39.2	933	11:37	20.0	1	DD
SC-4	4/20/2015	11:28	West (north) Wall	0.1	49.7	11:57	20.0	1	DD
SC-5	4/20/2015	11:49	North	0.0	9.2	12:24	20.0	1	DD
SC-6	4/20/2015	12:13	East	112	14.6	12:30	20.0	1	DD
SC-7	4/20/2015	12:13	Base	1,572	2,527	12:34	20.0	1	DD

DF Dilution Factor  
 NA Not Analyzed  
 PQL Practical Quantitation Limit

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Dylan Daw*



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

January 13, 2015

Emilee Skyles  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Beeline Marcus Compressor Sataion

OrderNo.: 1501230

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/8/2015 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services      **Client Sample ID:** SB-1@9.75'  
**Project:** Beeline Marcus Compressor Sataion      **Collection Date:** 1/7/2015 12:45:00 PM  
**Lab ID:** 1501230-001      **Matrix:** SOIL      **Received Date:** 1/8/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	1/12/2015 9:30:09 PM	17131
Toluene	ND	0.049		mg/Kg	1	1/12/2015 9:30:09 PM	17131
Ethylbenzene	0.084	0.049		mg/Kg	1	1/12/2015 9:30:09 PM	17131
Xylenes, Total	0.45	0.099		mg/Kg	1	1/12/2015 9:30:09 PM	17131
Surr: 4-Bromofluorobenzene	126	80-120	S	%REC	1	1/12/2015 9:30:09 PM	17131

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

<b>Qualifiers:</b>	* 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	Page 1 of 6
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SB-3@7'

Project: Beeline Marcus Compressor Sataion

Collection Date: 1/7/2015 11:10:00 AM

Lab ID: 1501230-002

Matrix: SOIL

Received Date: 1/8/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	7400	100		mg/Kg	10	1/9/2015 11:11:52 AM	17136
Motor Oil Range Organics (MRO)	5300	500		mg/Kg	10	1/9/2015 11:11:52 AM	17136
Surr: DNOP	0	63.5-128	S	%REC	10	1/9/2015 11:11:52 AM	17136
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1900	95		mg/Kg	20	1/9/2015 2:30:47 PM	17131
Surr: BFB	587	80-120	S	%REC	20	1/9/2015 2:30:47 PM	17131
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	1.2	0.95		mg/Kg	20	1/9/2015 2:30:47 PM	17131
Toluene	ND	0.95		mg/Kg	20	1/9/2015 2:30:47 PM	17131
Ethylbenzene	16	0.95		mg/Kg	20	1/9/2015 2:30:47 PM	17131
Xylenes, Total	110	1.9		mg/Kg	20	1/9/2015 2:30:47 PM	17131
Surr: 4-Bromofluorobenzene	150	80-120	S	%REC	20	1/9/2015 2:30:47 PM	17131

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	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#: 1501230

13-Jan-15

**Client:** Animas Environmental Services  
**Project:** Beeline Marcus Compressor Sataion

Sample ID: <b>MB-17136</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>17136</b>	RunNo: <b>23562</b>								
Prep Date: <b>1/8/2015</b>	Analysis Date: <b>1/9/2015</b>	SeqNo: <b>695950</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.4	63.5	128			

Sample ID: <b>LCS-17136</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>17136</b>	RunNo: <b>23562</b>								
Prep Date: <b>1/8/2015</b>	Analysis Date: <b>1/9/2015</b>	SeqNo: <b>695951</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	120	67.8	130			
Surr: DNOP	4.3		5.000		86.2	63.5	128			

### 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501230

13-Jan-15

**Client:** Animas Environmental Services  
**Project:** Beeline Marcus Compressor Sataion

Sample ID <b>MB-17131</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>17131</b>	RunNo: <b>23563</b>								
Prep Date: <b>1/8/2015</b>	Analysis Date: <b>1/9/2015</b>	SeqNo: <b>696254</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.0	80	120			

Sample ID <b>LCS-17131</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>17131</b>	RunNo: <b>23563</b>								
Prep Date: <b>1/8/2015</b>	Analysis Date: <b>1/9/2015</b>	SeqNo: <b>696255</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	65.8	139			
Surr: BFB	1000		1000		105	80	120			

Sample ID <b>5ML RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R23589</b>	RunNo: <b>23589</b>								
Prep Date:	Analysis Date: <b>1/12/2015</b>	SeqNo: <b>697022</b>	Units: <b>%REC</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.1	80	120			

Sample ID <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R23589</b>	RunNo: <b>23589</b>								
Prep Date:	Analysis Date: <b>1/12/2015</b>	SeqNo: <b>697023</b>	Units: <b>%REC</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.6	80	120			

Sample ID <b>MB-17155</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>17155</b>	RunNo: <b>23591</b>								
Prep Date: <b>1/9/2015</b>	Analysis Date: <b>1/12/2015</b>	SeqNo: <b>697041</b>	Units: <b>%REC</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.9	80	120			

Sample ID <b>LCS-17155</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>17155</b>	RunNo: <b>23591</b>								
Prep Date: <b>1/9/2015</b>	Analysis Date: <b>1/12/2015</b>	SeqNo: <b>697042</b>	Units: <b>%REC</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	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.
- RI. Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1501230

13-Jan-15

**Client:** Animas Environmental Services  
**Project:** Beeline Marcus Compressor Sataion

Sample ID	<b>MB-17131</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>17131</b>	RunNo:	<b>23563</b>					
Prep Date:	<b>1/8/2015</b>	Analysis Date:	<b>1/9/2015</b>	SeqNo:	<b>696273</b>	Units:	<b>mg/Kg</b>			
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	1.0		1.000		105	80	120			

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R23589</b>	RunNo:	<b>23589</b>					
Prep Date:		Analysis Date:	<b>1/12/2015</b>	SeqNo:	<b>697028</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R23589</b>	RunNo:	<b>23589</b>					
Prep Date:		Analysis Date:	<b>1/12/2015</b>	SeqNo:	<b>697029</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	<b>LCS-17131</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>17131</b>	RunNo:	<b>23589</b>					
Prep Date:	<b>1/8/2015</b>	Analysis Date:	<b>1/12/2015</b>	SeqNo:	<b>697032</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.050	1.000	0	87.8	80	120			
Toluene	0.87	0.050	1.000	0	87.1	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		115	80	120			

Sample ID	<b>MB-17155</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>17155</b>	RunNo:	<b>23591</b>					
Prep Date:	<b>1/9/2015</b>	Analysis Date:	<b>1/12/2015</b>	SeqNo:	<b>697081</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501230

13-Jan-15

**Client:** Animas Environmental Services  
**Project:** Beeline Marcus Compressor Sataion

Sample ID	LCS-17155	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	17155	RunNo:	23591					
Prep Date:	1/9/2015	Analysis Date:	1/12/2015	SeqNo:	697082	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		118	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



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: 1501230

RcptNo: 1

Received by/date: [Signature] 01/08/15

Logged By: **Lindsay Mangin** 1/8/2015 7:00:00 AM [Signature]

Completed By: **Lindsay Mangin** 1/8/2015 8:51:48 AM [Signature]

Reviewed By: [Signature] 01/08/15

### 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 the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes  No
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. 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)

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			





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

April 23, 2015

Emilee Skyles  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Marcus Compressor

OrderNo.: 1504849

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/21/2015 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: Marcus Compressor

Collection Date: 4/20/2015 12:13:00 PM

Lab ID: 1504849-001

Matrix: MEOH (SOIL)

Received Date: 4/21/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	860	100		mg/Kg	10	4/21/2015 2:19:05 PM	18792
Motor Oil Range Organics (MRO)	810	500		mg/Kg	10	4/21/2015 2:19:05 PM	18792
Surr: DNOP	0	57.9-140	S	%REC	10	4/21/2015 2:19:05 PM	18792
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	200	18		mg/Kg	5	4/21/2015 12:04:42 PM	18764
Surr: BFB	340	80-120	S	%REC	5	4/21/2015 12:04:42 PM	18764
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.088		mg/Kg	5	4/21/2015 12:04:42 PM	18764
Toluene	0.20	0.18		mg/Kg	5	4/21/2015 12:04:42 PM	18764
Ethylbenzene	0.51	0.18		mg/Kg	5	4/21/2015 12:04:42 PM	18764
Xylenes, Total	4.4	0.35		mg/Kg	5	4/21/2015 12:04:42 PM	18764
Surr: 4-Bromofluorobenzene	126	80-120	S	%REC	5	4/21/2015 12:04:42 PM	18764

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH Not In Range
	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#: 1504849

23-Apr-15

**Client:** Animas Environmental Services

**Project:** Marcus Compressor

Sample ID	<b>MB-18792</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18792</b>	RunNo:	<b>25632</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/21/2015</b>	SeqNo:	<b>759849</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.8	57.9	140			

Sample ID	<b>LCS-18792</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18792</b>	RunNo:	<b>25632</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/21/2015</b>	SeqNo:	<b>759851</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	47	10	50.00	0	93.3	67.8	130			
Surr: DNOP	4.7		5.000		94.5	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 Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1504849  
23-Apr-15

**Client:** Animas Environmental Services  
**Project:** Marcus Compressor

Sample ID	<b>MB-18764</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18764</b>	RunNo:	<b>25643</b>					
Prep Date:	<b>4/20/2015</b>	Analysis Date:	<b>4/21/2015</b>	SeqNo:	<b>760143</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.9	80	120			

Sample ID	<b>LCS-18764</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18764</b>	RunNo:	<b>25643</b>					
Prep Date:	<b>4/20/2015</b>	Analysis Date:	<b>4/21/2015</b>	SeqNo:	<b>760144</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	64	130			
Surr: BFB	990		1000		98.9	80	120			

Sample ID	<b>MB-18803</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761162</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	850		1000		85.0	80	120			

Sample ID	<b>LCS-18803</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761163</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.4	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 Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1504849

23-Apr-15

**Client:** Animas Environmental Services  
**Project:** Marcus Compressor

Sample ID	<b>MB-18764</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18764</b>	RunNo:	<b>25643</b>					
Prep Date:	<b>4/20/2015</b>	Analysis Date:	<b>4/21/2015</b>	SeqNo:	<b>760213</b>	Units:	<b>mg/Kg</b>			
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	0.97		1.000		97.1	80	120			

Sample ID	<b>LCS-18764</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18764</b>	RunNo:	<b>25643</b>					
Prep Date:	<b>4/20/2015</b>	Analysis Date:	<b>4/21/2015</b>	SeqNo:	<b>760214</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	76.6	128			
Toluene	1.0	0.050	1.000	0	105	75	124			
Ethylbenzene	1.1	0.050	1.000	0	110	79.5	126			
Xylenes, Total	3.3	0.10	3.000	0	109	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	<b>MB-18803</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761191</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	80	120			

Sample ID	<b>LCS-18803</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761192</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	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 Not In Range
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1504849

RcptNo: 1

Received by/date: [Signature] 04/21/15

Logged By: Lindsay Mangin 4/21/2015 7:30:00 AM [Signature]

Completed By: Lindsay Mangin 4/21/2015 8:17:24 AM [Signature]

Reviewed By: [Signature]

**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 the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. 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)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

# Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W. Pinen St

Phone #: 505-564-2281

Email or Fax#: ddavis@animasenvironmental.com

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:

Standard

Rush Same Day

Project Name:

Marcus Compressor

Project #:

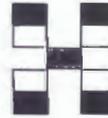
Project Manager:

Emilee Skyles

Sampler: DD

On Job:  Yes  No

Sample Temperature: 3.3



## 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	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + THMs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
10/15	12:13	Soil	SC-7	4oz/Vario	Various	1504849-001	X		X									

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/15	1659	<u>[Signature]</u>	Christie White	10/15	1655
Date:	Time:	Relinquished by:	Received by:	Date	Time
11/20/15	1841	Christie White	<u>[Signature]</u>	04/21/15	0730

Remarks:



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

April 28, 2015

Emilee Skyles

Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Marcus Compressor Station

OrderNo.: 1504867

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/21/2015 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services **Client Sample ID:** SC-1  
**Project:** Marcus Compressor Station **Collection Date:** 4/20/2015 10:40:00 AM  
**Lab ID:** 1504867-001 **Matrix:** SOIL **Received Date:** 4/21/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/22/2015 9:00:24 PM	18786
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/22/2015 9:00:24 PM	18786
Surr: DNOP	93.9	57.9-140		%REC	1	4/22/2015 9:00:24 PM	18786
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2015 3:03:09 AM	18803
Surr: BFB	86.3	80-120		%REC	1	4/23/2015 3:03:09 AM	18803
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	4/23/2015 3:03:09 AM	18803
Toluene	ND	0.047		mg/Kg	1	4/23/2015 3:03:09 AM	18803
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2015 3:03:09 AM	18803
Xylenes, Total	ND	0.095		mg/Kg	1	4/23/2015 3:03:09 AM	18803
Surr: 4-Bromofluorobenzene	93.3	80-120		%REC	1	4/23/2015 3:03:09 AM	18803

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: Marcus Compressor Station

Collection Date: 4/20/2015 10:45:00 AM

Lab ID: 1504867-002

Matrix: SOIL

Received Date: 4/21/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	4/22/2015 9:21:49 PM	18786
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/22/2015 9:21:49 PM	18786
Surr: DNOP	99.2	57.9-140		%REC	1	4/22/2015 9:21:49 PM	18786
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	7.2	5.0		mg/Kg	1	4/23/2015 3:31:48 AM	18803
Surr: BFB	106	80-120		%REC	1	4/23/2015 3:31:48 AM	18803
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.050		mg/Kg	1	4/23/2015 3:31:48 AM	18803
Toluene	ND	0.050		mg/Kg	1	4/23/2015 3:31:48 AM	18803
Ethylbenzene	ND	0.050		mg/Kg	1	4/23/2015 3:31:48 AM	18803
Xylenes, Total	0.17	0.10		mg/Kg	1	4/23/2015 3:31:48 AM	18803
Surr: 4-Bromofluorobenzene	98.7	80-120		%REC	1	4/23/2015 3:31:48 AM	18803

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-3

**Project:** Marcus Compressor Station

**Collection Date:** 4/20/2015 11:06:00 AM

**Lab ID:** 1504867-003

**Matrix:** SOIL

**Received Date:** 4/21/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	160	98		mg/Kg	10	4/24/2015 7:49:37 PM	18786
Motor Oil Range Organics (MRO)	1200	490		mg/Kg	10	4/24/2015 7:49:37 PM	18786
Surr: DNOP	0	57.9-140	S	%REC	10	4/24/2015 7:49:37 PM	18786
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2015 4:00:22 AM	18803
Surr: BFB	102	80-120		%REC	1	4/23/2015 4:00:22 AM	18803
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	4/23/2015 4:00:22 AM	18803
Toluene	ND	0.048		mg/Kg	1	4/23/2015 4:00:22 AM	18803
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2015 4:00:22 AM	18803
Xylenes, Total	ND	0.096		mg/Kg	1	4/23/2015 4:00:22 AM	18803
Surr: 4-Bromofluorobenzene	98.7	80-120		%REC	1	4/23/2015 4:00:22 AM	18803

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services      **Client Sample ID:** SC-4  
**Project:** Marcus Compressor Station      **Collection Date:** 4/20/2015 11:28:00 AM  
**Lab ID:** 1504867-004      **Matrix:** SOIL      **Received Date:** 4/21/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/23/2015 1:48:02 PM	18786
Motor Oil Range Organics (MRO)	96	50		mg/Kg	1	4/23/2015 1:48:02 PM	18786
Surr: DNOP	97.2	57.9-140		%REC	1	4/23/2015 1:48:02 PM	18786
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2015 4:29:01 AM	18803
Surr: BFB	108	80-120		%REC	1	4/23/2015 4:29:01 AM	18803
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	4/23/2015 4:29:01 AM	18803
Toluene	ND	0.047		mg/Kg	1	4/23/2015 4:29:01 AM	18803
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2015 4:29:01 AM	18803
Xylenes, Total	ND	0.094		mg/Kg	1	4/23/2015 4:29:01 AM	18803
Surr: 4-Bromofluorobenzene	99.3	80-120		%REC	1	4/23/2015 4:29:01 AM	18803

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

<b>Qualifiers:</b>	* 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	Page 4 of 9
	O RSD is greater than RSDlimit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Marcus Compressor Station

Collection Date: 4/20/2015 11:49:00 AM

Lab ID: 1504867-005

Matrix: SOIL

Received Date: 4/21/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/22/2015 10:25:53 PM	18786
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/22/2015 10:25:53 PM	18786
Surr: DNOP	99.4	57.9-140		%REC	1	4/22/2015 10:25:53 PM	18786
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2015 1:26:47 AM	18803
Surr: BFB	89.8	80-120		%REC	1	4/25/2015 1:26:47 AM	18803
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	4/23/2015 11:54:43 AM	18803
Toluene	ND	0.049		mg/Kg	1	4/23/2015 11:54:43 AM	18803
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2015 11:54:43 AM	18803
Xylenes, Total	ND	0.097		mg/Kg	1	4/23/2015 11:54:43 AM	18803
Surr: 4-Bromofluorobenzene	96.7	80-120		%REC	1	4/23/2015 11:54:43 AM	18803

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services  
**Project:** Marcus Compressor Station  
**Lab ID:** 1504867-006

**Client Sample ID:** SC-6  
**Collection Date:** 4/20/2015 12:13:00 PM  
**Received Date:** 4/21/2015 7:30:00 AM

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/22/2015 10:47:19 PM	18786
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/22/2015 10:47:19 PM	18786
Surr: DNOP	95.0	57.9-140		%REC	1	4/22/2015 10:47:19 PM	18786
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2015 1:55:29 AM	18803
Surr: BFB	91.2	80-120		%REC	1	4/25/2015 1:55:29 AM	18803
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	4/23/2015 12:23:30 PM	18803
Toluene	ND	0.049		mg/Kg	1	4/23/2015 12:23:30 PM	18803
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2015 12:23:30 PM	18803
Xylenes, Total	ND	0.098		mg/Kg	1	4/23/2015 12:23:30 PM	18803
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1	4/23/2015 12:23:30 PM	18803

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

<b>Qualifiers:</b>	* 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
	O RSD is greater than RSDlimit	P Sample pH Not In Range
	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#: 1504867

28-Apr-15

Client: Animas Environmental Services

Project: Marcus Compressor Station

Sample ID	<b>LCS-18786</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18786</b>	RunNo:	<b>25664</b>					
Prep Date:	<b>4/20/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761215</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.9	67.8	130			
Surr: DNOP	5.3		5.000		107	57.9	140			

Sample ID	<b>MB-18786</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18786</b>	RunNo:	<b>25664</b>					
Prep Date:	<b>4/20/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761222</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.6	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 Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1504867

28-Apr-15

**Client:** Animas Environmental Services  
**Project:** Marcus Compressor Station

Sample ID	<b>MB-18803</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761162</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.0	80	120			

Sample ID	<b>LCS-18803</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761163</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	64	130			
Surr: BFB	940		1000		94.4	80	120			

Sample ID	<b>MB-18831</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18831</b>	RunNo:	<b>25724</b>					
Prep Date:	<b>4/22/2015</b>	Analysis Date:	<b>4/24/2015</b>	SeqNo:	<b>763392</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	910		1000		91.1	80	120			
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Sample ID	<b>LCS-18831</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18831</b>	RunNo:	<b>25724</b>					
Prep Date:	<b>4/22/2015</b>	Analysis Date:	<b>4/24/2015</b>	SeqNo:	<b>763396</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	990		1000		98.9	80	120			
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**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 Not In Range
- RL Reporting Detection Limit

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1504867  
 28-Apr-15

**Client:** Animas Environmental Services  
**Project:** Marcus Compressor Station

Sample ID	<b>MB-18803</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761191</b>	Units:	<b>mg/Kg</b>			
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	<b>LCS-18803</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>18803</b>	RunNo:	<b>25665</b>					
Prep Date:	<b>4/21/2015</b>	Analysis Date:	<b>4/22/2015</b>	SeqNo:	<b>761192</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	76.6	128			
Toluene	1.0	0.050	1.000	0	101	75	124			
Ethylbenzene	1.1	0.050	1.000	0	106	79.5	126			
Xylenes, Total	3.2	0.10	3.000	0	105	78.8	124			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	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 Not In Range
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: **Animas Environmental**

Work Order Number: **1504887**

RcptNo: **1**

Received by/date: *[Signature]* *04/21/15*  
 Logged By: **Lindsay Mangin** **4/21/2015 7:30:00 AM** *[Signature]*  
 Completed By: **Lindsay Mangin** **4/21/2015 10:14:47 AM** *[Signature]*  
 Reviewed By: *CS* *04/21/15*

**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 the samples? Yes  No  NA
  - 5. Were all samples received at a temperature of >0° C to 8.0°C? Yes  No  NA
  - 6. Sample(s) in proper container(s)? Yes  No
  - 7. Sufficient sample volume for indicated test(s)? Yes  No
  - 8. Are samples (except VOA and ONG) properly preserved? Yes  No
  - 9. Was preservative added to bottles? Yes  No  NA
  - 10. VOA vials have zero headspace? Yes  No  No VOA Vials
  - 11. Were any sample containers received broken? Yes  No
  - 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
  - 13. Are matrices correctly identified on Chain of Custody? Yes  No
  - 14. Is it clear what analyses were requested? Yes  No
  - 15. 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)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

# Chain-of-Custody Record

Client: Animos Environmental Services

Mailing Address:

84 W Pinon St Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: ddavis@animosenvironmental.com

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:

Standard  Rush

Project Name:

Marcus Compressor Station

Project #:

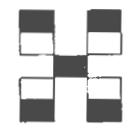
Project Manager:

Emilee Skyles

Sampler: Dylan Davis

On Ice:  Yes  No

Sample Temperature: 3.3



## 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	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THMs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
20/15	1040	Soil	SC-1	4oz Jar	Cool	150-18107 -001	X	X										
20/15	1045	Soil	SC-2	↓	↓	-002	X	X										
20/15	1106	Soil	SC-3	↓	↓	-003	X	X										
20/15	1128	Soil	SC-4	↓	↓	-004	X	X										
20/15	1149	Soil	SC-5	↓	↓	-005	X	X										
20/15	1213	Soil	SC-6	↓	↓	-006	X	X										

Date: 20/15 Time: 1659 Relinquished by: [Signature] Received by: [Signature] Date: 4/20/15 Time: 1659

Date: 20/15 Time: 1841 Relinquished by: [Signature] Received by: [Signature] Date: 04/21/15 Time: 0730

Remarks:

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.