

3R - 443

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Animas Environmental Services, LLC

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Prepared on behalf of:

Enterprise Products Company
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Site Investigation Report
Enterprise Products Company
Gallegos Well Tie Line #90898-
Gallegos #2
SE¼ NE¼, Section 29, T26N, R11W
San Juan County, New Mexico

September 18, 2012

Prepared by:

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1.0 Introduction

Animas Environmental Services, LLC (AES), on behalf of Enterprise Products Company, Inc. (Enterprise), has prepared this Site Investigation Report for the Gallegos Well Tie Line #90898, Gallegos #2 pipeline releases that were discovered in May 2012 and confirmed in June 2012. This investigation was conducted in accordance with the work plan prepared by AES and titled *Site Investigation Work Plan for the Gallegos Well Tie Line #90898, Gallegos #2*, dated June 22, 2012, and submitted to Enterprise, New Mexico Oil Conservation Division (NMOCD), and Navajo Nation Environmental Protection Agency (NNEPA). Note that the work plan also included details of the initial release assessment.

1.1 Site Location and NMOCD Ranking

The release areas are within the boundaries of the Navajo Nation within the SE¼ NE¼, Section 29, T26N, R11W, San Juan County, New Mexico. Latitude and longitude of Release #1 were recorded as N36.45979 and W108.02202, respectively. Latitude and longitude of Release #2 were recorded as N36.45988 and W108.02188, respectively. The releases are located within an ephemeral stream known as Gallegos Wash, which discharges into the San Juan River approximately 16.5 miles north of the release locations. A topographic site location map is included as Figure 1, and an aerial site map showing the release locations is included as Figure 2.

In accordance NNEPA release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the initial assessment. The ranking score was obtained by reviewing available records of nearby oil/gas wells using the NMOCD online database; however, no records were found to assist in determining a ranking score for the release location. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed for the presence of nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location.

Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of surface water. In addition to Gallegos Wash, two ponds were identified approximately 220 feet and 500 feet upgradient of the release locations. Groundwater was assumed to be less than 20 feet below ground surface (bgs) since the locations of the releases are within Gallegos Wash. Due to these factors, the release locations were assessed a ranking score of 40.

1.2 Initial Release Assessment - June 2012

On May 28, 2012, the releases were discovered by Enterprise personnel, and employees were dispatched to confirm the releases and to shut in the affected well, de-pressurize the

associated lines, and lock out/tag out associated control valves. The assessment of the pipeline was continued on June 6, 2012, when it was determined that the releases were a result of two corrosion holes (approximately 54 feet apart) in the pipeline. Enterprise contractors completed the repair of the pipeline on June 8, 2012.

On June 11 and 12, 2012, an Enterprise contractor excavated petroleum hydrocarbon impacted soil within the two release areas. The excavation was terminated on June 12, 2012, due to difficulties with heavy equipment ingress and egress in the wet, sandy soils. The final excavation dimensions measured approximately 98 feet by 14 feet by 2.5 feet deep. Prior to the excavation being backfilled, AES field screened soil samples for volatile organic compounds (VOCs) and collected confirmation soil samples from the excavation side walls for laboratory analysis. An additional sample was collected from a test hole that was excavated to 2 feet below ground surface (bgs) immediately adjacent to the northwest wall of the excavation in order to delineate the extent of the release.

All soil samples had reported concentrations of benzene and total benzene, toluene, ethylbenzene, and xylenes (BTEX) below the applicable NNEPA action levels. However, concentrations of total petroleum hydrocarbons (TPH) were reported above the NNEPA action level of 100 mg/kg in two of the soil samples. The highest TPH concentration, as gasoline and diesel range organics, was reported in SC-5 with 291 mg/kg.

Groundwater was encountered within the excavation at approximately 2.5 feet bgs. On June 12, 2012, AES collected three confirmation groundwater samples in order to determine if groundwater had been impacted. Laboratory analytical results for TH-1W showed that dissolved phase concentrations were above NNEPA action levels for benzene (2,100 µg/L), toluene (8,400 µg/L), and xylenes (9,900 µg/L). Note that for oil and gas releases, NNEPA utilizes New Mexico Water Quality Control Commission (WQCC) groundwater standards. Details of the initial site assessment were submitted in the *Site Investigation Work Plan for the Gallegos Well Tie Line #90898, Gallegos #2*, dated June 22, 2012.

Based on field screening and laboratory analytical results, AES recommended a continued site investigation in order to delineate the hydrocarbon impacted soil and groundwater.

2.0 Site Investigation – July 2012

On July 6 through 11, 2012, AES completed a site investigation in order to delineate the full extent of petroleum hydrocarbon impact on soil and groundwater resulting from the release. The release location is situated within an ephemeral stream; therefore, it was determined that permanent groundwater monitoring wells should not be installed, and that the most appropriate sampling method for site conditions was a HydroPunch, an EPA approved groundwater sampling technique, which allows for in-situ collection of groundwater

samples. During the site investigation, AES personnel installed 13 temporary wells (TW-1 through TW-13) in order to define the lateral extent of soil and groundwater impact. Work was completed in accordance with NMOCD guidelines, AES' Standard Operating Procedures (SOPs), U.S. Environmental Protection Agency (USEPA) Environmental Response Team's SOPs, and applicable American Society of Testing and Materials (ASTM) standards. The locations of the temporary wells are presented on Figure 3.

2.1 Pre-Field Coordination and Job Safety Analysis

Prior to field work, AES utilized the New Mexico One-Call system to identify and mark all underground utilities at the site and submitted required 48 hour notifications to representatives of Enterprise, BLM, and NMOCD, in writing and by telephone. Additionally, AES prepared and implemented a comprehensive site-specific Job Safety Analysis (JSA) addressing the site investigation activities associated with soil and groundwater sampling. All employees were required to read and sign the JSA to acknowledge their understanding of the information contained within the JSA. The JSA was implemented and enforced on site by the assigned Site Safety and Health Officer.

2.2 Soil Sample Collection and Field Screening Procedures

A total of 13 soil samples (TW-1 through TW-13) were collected using a hand auger while installing soil borings just above the capillary fringe. Sample depths varied from 1 to 2 feet bgs. Local soil lithology consisted of fine to coarse sand from surface to total depths of the borings. One soil sample was collected from each boring for field screening of VOCs and laboratory analysis.

Field screening for VOCs 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.

2.3 Groundwater Sample Collection

Thirteen temporary wells (TW-1 through TW-13) were installed by hand driving the HydroPunch screen with a fencepost driver, and screens were driven to depths ranging from approximately 5.7 to 6.9 feet bgs. The internal slotted screen of the HydroPunch was set across the top of the shallow groundwater table at depths ranging from 3.9 to 6.7 feet bgs and left in place to allow groundwater to infiltrate and reach equilibrium.

Groundwater samples were collected from six of the temporary wells (TW-1, TW-2, TW-3, TW-5, TW-8, and TW-10) with a peristaltic pump. The remaining wells were not sampled because of insufficient water available for sample collection. Prior to collection of each groundwater sample, depth to groundwater was measured with a water level indicator. Depth to groundwater in each temporary well was recorded on groundwater sample collection forms. Additionally, approximately 0.25 gallons were purged from each well, and

water quality parameters (pH, temperature, electrical conductivity, and oxygen reduction potential) were recorded on the groundwater sample collection forms.

2.4 Soil and Groundwater Laboratory Analyses

All samples were submitted to Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico, for analysis of the following parameters:

- BTEX per USEPA Method 8021 or 8260;
- TPH – Gasoline Range Organics (GRO)/Diesel Range Organics (DRO) per USEPA Method 8015B.

2.5 Soil Field Screening and Laboratory Analytical Results

During the July 2012 site investigation, field screening readings showed VOC concentrations ranging from 0.4 ppm in TW-7 to 6.5 ppm in TW-8. Soil laboratory analytical results for benzene, total BTEX, and TPH showed reported concentrations below laboratory detection limits and NNEPA action levels in each soil boring. Tabulated field screening and laboratory analytical results are presented in Table 1 and are presented in Figure 3. Soil laboratory analytical reports are provided in the Appendix.

2.6 Groundwater Field Measurements and Laboratory Analytical Results

Water quality measurements were recorded prior to sample collection, and temperature readings ranged from 24.98°C in TW-2 to 29.1°C in TW-10. Conductivity readings were between 0.911 mS in TW-1 and 2.458 mS in TW-3, and pH ranged from 7.49 in TW-3 to 10.41 in TW-2. Dissolved oxygen ranged from 2.57 mg/L in TW-3 to 72.8 in TW-10. Water quality measurements are tabulated in Table 2, and water sample collection forms are included in the Appendix.

Groundwater laboratory analytical results showed that dissolved phase benzene concentrations were above the WQCC standard of 10 µg/L in TW-3 with 220 µg/L. All other samples were below the laboratory detection limit or WQCC standard. TW-3 also exceeded the WQCC standards with 770 µg/L toluene and 1,400 µg/L xylenes. Dissolved phase ethylbenzene concentrations were below the laboratory detection limit or WQCC standard of 750 µg/L in all samples.

Dissolved phase GRO concentrations were reported in TW-3 with 6.0 mg/L and in TW-5 with 0.053 mg/L. Dissolved phase DRO was reported in TW-3 with 7.0 mg/L and in TW-8 with 1.1 mg/L. All other samples were below laboratory detection limits for TPH (as GRO/DRO). Note that WQCC standards have not been established for TPH (as GRO/DRO). Tabulated groundwater analytical results are presented in Table 3 and on Figure 3, and groundwater laboratory analytical reports are presented in the Appendix.

3.0 Conclusions and Recommendations

A total of 13 HydroPunch temporary wells were installed by AES on July 6 through July 11, 2012, in accordance with the work plan submitted in June 2012. During the July 2012 investigation, petroleum hydrocarbon impacted soil was not encountered in any of the soil borings. However, laboratory results confirmed groundwater impact in TW-3 with dissolved phase concentrations above WQCC standards for benzene (220 µg/L), toluene (770 µg/L), and xylene (1,400 µg/L).

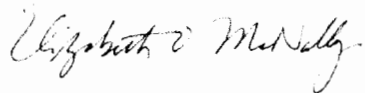
Based on laboratory analytical results from the July 2012 investigation, groundwater continues to be impacted above WQCC standards near the southern bank of the Gallegos Wash. Therefore, AES recommends injection of a microbial bioremediation solution within the dissolved phase plume in Gallegos Wash with follow up groundwater sampling after the winter thaw, anticipated to be in April 2013. AES will submit a work plan under separate cover detailing an additional proposed scope of work.

4.0 Certification

I, the undersigned, am personally familiar with the information presented in this Site Investigation Report, prepared on behalf of Enterprise Products Company, Inc. for the May 2012 Gallegos Well Tie Line #90898, Gallegos #2 pipeline releases. I attest that it is true and complete to the best of my knowledge.



Tami C. Ross, CHMM
Project Manager



Elizabeth McNally, P.E.
Principal



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: June 21, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 11, 2012
CHECKED BY: T. Ross	DATE CHECKED: September 11, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 11, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE PRODUCTS COMPANY
GALLEGOS WELL TIE LINE #90898, GALLEGOS #2
SITE INVESTIGATION
SAN JUAN COUNTY, NEW MEXICO
SE¼ NE¼, SECTION 29, T26N, R11W
N36.45979, W108.02202



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: June 21, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 11, 2012
CHECKED BY: T. Ross	DATE CHECKED: September 11, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 11, 2012

FIGURE 2

AERIAL SITE MAP
ENTERPRISE PRODUCTS COMPANY
GALLEGOS WELL TIE LINE #90898, GALLEGOS #2
SITE INVESTIGATION
SAN JUAN COUNTY, NEW MEXICO
SE $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 29, T26N, R11W
N36.45979, W108.02202

FIGURE 3

**SOIL AND HYDROPUNCH
GROUNDWATER SAMPLING
LOCATIONS AND RESULTS, JULY 2012**
ENTERPRISE PRODUCTS COMPANY
GALLEGOS WELL TIE LINE #90898, GALLEGOS #2
SITE INVESTIGATION
SAN JUAN COUNTY, NEW MEXICO
SE¼ NE¼, SECTION 29, T26N, R11W
N36.45979, W108.02202



DRAWN BY: C. Lameman	DATE DRAWN: July 18, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 11, 2012
CHECKED BY: T. Ross	DATE CHECKED: September 11, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 11, 2012

LEGEND

- SOIL SAMPLE AND HYDROPUNCH LOCATIONS
- P — BURIED PIPELINE
- /// INFERRED DISSOLVED PHASE PLUME ABOVE WQCC STANDARDS

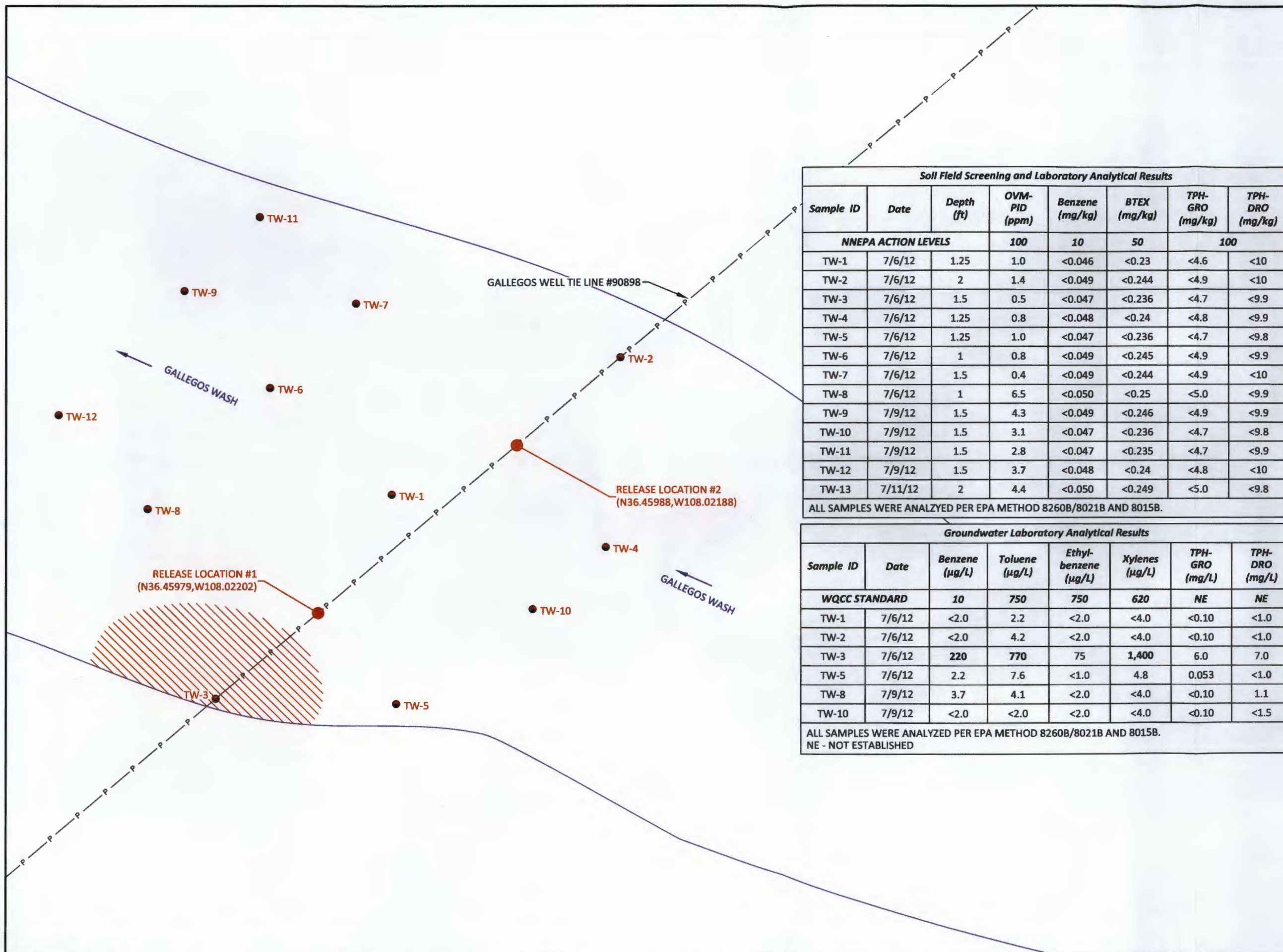
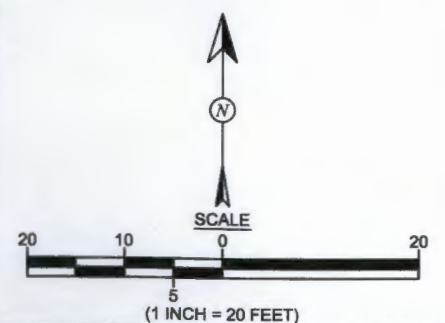


TABLE 1

SUMMARY OF SOIL FIELD-SCREENING AND LABORATORY ANALYTICAL RESULTS
Enterprise Products Company Gallegos Well Tie Line #90898, Gallegos #2 Site Investigation
San Juan County, New Mexico

Sample ID	Date Sampled	Depth	OVM Reading	Benzene	Toluene	Ethyl-benzene	Xylene	BTEX	GRO (C6-C10)	DRO (C10-C22)	TPH (GRO+DRO)
		(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
				10	NE	NE	NE	50	NE	NE	100
	NMOC	Action Level									
TW-1	6-Jul-12	1.25	1.0	<0.046	<0.046	<0.046	<0.092	<0.23	<4.6	<10	<14.6
TW-2	6-Jul-12	2	1.4	<0.049	<0.049	<0.049	<0.097	<0.244	<4.9	<10	<14.9
TW-3	6-Jul-12	1.5	0.5	<0.047	<0.047	<0.047	<0.095	<0.236	<4.7	<9.9	<14.6
TW-4	6-Jul-12	1.25	0.8	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<9.9	<14.7
TW-5	6-Jul-12	1.25	1.0	<0.047	<0.047	<0.047	<0.095	<0.236	<4.7	<9.8	<14.5
TW-6	6-Jul-12	1	0.8	<0.049	<0.049	<0.049	<0.098	<0.245	<4.9	<9.9	<14.8
TW-7	6-Jul-12	1.5	0.4	<0.049	<0.049	<0.049	<0.097	<0.244	<4.9	<10	<14.9
TW-8	6-Jul-12	1	6.5	<0.050	<0.050	<0.050	<0.10	<0.25	<5.0	<9.9	<14.9
TW-9	9-Jul-12	1.5	4.3	<0.049	<0.049	<0.049	<0.099	<0.246	<4.9	<9.9	<14.8
TW-10	9-Jul-12	1.5	3.1	<0.047	<0.047	<0.047	<0.095	<0.236	<4.7	<9.8	<14.5
TW-11	9-Jul-12	1.5	2.8	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<9.9	<14.6
TW-12	9-Jul-12	1.5	3.7	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10	<14.8
TW-13	11-Jul-12	2	4.4	<0.050	<0.050	<0.050	<0.099	<0.249	<5.0	<9.8	<14.8

NOTES NE = Not Established

TABLE 2
SUMMARY OF GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Enterprise Products Company Gallegos Well Tie Line #90898, Gallegos #2 Site Investigation
San Juan County, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>Depth to Water (ft below TOC)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>Purge Volume (gallons)</i>
TW-1	06-Jul-12	4.15	9.2	0.911	5.21	28.21	0.25
TW-2	06-Jul-12	9.92	10.41	2.250	4.92	24.98	0.25
TW-3	06-Jul-12	4.06	7.49	2.458	2.57	27.62	0.25
TW-4	06-Jul-12	6.69	NM - INSUFFICIENT WATER				
TW-5	06-Jul-12	5.87	9.42	1.203	3.88	27.41	0.25
TW-6	06-Jul-12	4.75	NM - INSUFFICIENT WATER				
TW-7	06-Jul-12	4.65	NM - INSUFFICIENT WATER				
TW-8	06-Jul-12	5.38	NM - INSUFFICIENT WATER				
TW-9	09-Jul-12	DRY	NM - INSUFFICIENT WATER				
TW-10	09-Jul-12	3.94	8.81	1.094	72.8	29.1	0.25
TW-11	09-Jul-12	DRY	NM - INSUFFICIENT WATER				
TW-12	09-Jul-12	6.00	NM - INSUFFICIENT WATER				
TW-13	11-Jul-12	DRY	NM - INSUFFICIENT WATER				

NOTES: NM = NOT MEASURED

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Enterprise Products Company Gallegos Well Tie Line #90898, Gallegos #2 Site Investigation
San Juan County, New Mexico

Well ID		Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	GRO C6-C10	DRO C10-C22
			µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
Sample Method		EPA Method 8021/8260				EPA Method 8015M		
WQCC STANDARD		10	750	750	620	NE	NE	
TW-1	06-Jul-12	<2.0	2.2	<2.0	<4.0	<0.10	<1.0	
TW-2	06-Jul-12	<2.0	4.2	<2.0	<4.0	<0.10	<1.0	
TW-3	06-Jul-12	220	770	75	1,400	6.0	7.0	
TW-5	06-Jul-12	2.2	7.6	<1.0	4.8	0.053	<1.0	
TW-8	09-Jul-12	3.7	4.1	<2.0	<4.0	<0.10	1.1	
TW-10	09-Jul-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.5	

Notes:

<	Analyte not detected above listed method limit
NE	Not established
µg/L	Micrograms per liter (ppb)
mg/L	Milligrams per liter (ppm)
GRO	Gasoline range organics
DRO	Diesel range organics



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

July 17, 2012

Tami Ross

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 793-2072
FAX

RE: Enterprise Gallegos Well Tie Line #90898

OrderNo.: 1207212

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/7/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TW-1 @1.25'

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 9:45:00 AM

Lab ID: 1207212-001

Matrix: SOIL

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/10/2012 4:17:33 PM
Surr: DNOP	105	77.6-140		%REC	1	7/10/2012 4:17:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/13/2012 4:00:48 PM
Surr: BFB	108	69.7-121		%REC	1	7/13/2012 4:00:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	7/13/2012 4:00:48 PM
Toluene	ND	0.046		mg/Kg	1	7/13/2012 4:00:48 PM
Ethylbenzene	ND	0.046		mg/Kg	1	7/13/2012 4:00:48 PM
Xylenes, Total	ND	0.092		mg/Kg	1	7/13/2012 4:00:48 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	7/13/2012 4:00:48 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TW-2 @2'

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 10:05:00 AM

Lab ID: 1207212-002

Matrix: SOIL

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/10/2012 4:43:27 PM
Surr: DNOP	101	77.6-140		%REC	1	7/10/2012 4:43:27 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2012 4:29:32 PM
Surr: BFB	104	69.7-121		%REC	1	7/13/2012 4:29:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/13/2012 4:29:32 PM
Toluene	ND	0.049		mg/Kg	1	7/13/2012 4:29:32 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2012 4:29:32 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2012 4:29:32 PM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	7/13/2012 4:29:32 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
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
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical ReportLab Order **1207212**

Date Reported: 7/17/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** TW-3 @1.5'**Project:** Enterprise Gallegos Well Tie Line #9089**Collection Date:** 7/6/2012 9:50:00 AM**Lab ID:** 1207212-003**Matrix:** SOIL**Received Date:** 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/10/2012 5:09:18 PM
Surr: DNOP	104	77.6-140		%REC	1	7/10/2012 5:09:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/13/2012 4:58:18 PM
Surr: BFB	102	69.7-121		%REC	1	7/13/2012 4:58:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	7/13/2012 4:58:18 PM
Toluene	ND	0.047		mg/Kg	1	7/13/2012 4:58:18 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/13/2012 4:58:18 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/13/2012 4:58:18 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	7/13/2012 4:58:18 PM

Qualifiers:

- * /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TW-4 @1.25'

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 10:00:00 AM

Lab ID: 1207212-004

Matrix: SOIL

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/10/2012 5:35:13 PM
Surr: DNOP	102	77.6-140		%REC	1	7/10/2012 5:35:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2012 12:10:02 AM
Surr: BFB	98.0	69.7-121		%REC	1	7/14/2012 12:10:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	7/14/2012 12:10:02 AM
Toluene	ND	0.048		mg/Kg	1	7/14/2012 12:10:02 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2012 12:10:02 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2012 12:10:02 AM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	7/14/2012 12:10:02 AM

Qualifiers: * /X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
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
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** TW-5 @1.25'**Project:** Enterprise Gallegos Well Tie Line #9089**Collection Date:** 7/6/2012 9:55:00 AM**Lab ID:** 1207212-005**Matrix:** SOIL**Received Date:** 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/10/2012 6:01:07 PM
Surr: DNOP	101	77.6-140		%REC	1	7/10/2012 6:01:07 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/14/2012 12:38:45 AM
Surr: BFB	98.5	69.7-121		%REC	1	7/14/2012 12:38:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	7/14/2012 12:38:45 AM
Toluene	ND	0.047		mg/Kg	1	7/14/2012 12:38:45 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/14/2012 12:38:45 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2012 12:38:45 AM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	7/14/2012 12:38:45 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TW-6 @1'

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 9:33:00 AM

Lab ID: 1207212-006

Matrix: SOIL

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/10/2012 6:26:44 PM
Surr: DNOP	103	77.6-140		%REC	1	7/10/2012 6:26:44 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2012 1:07:30 AM
Surr: BFB	98.3	69.7-121		%REC	1	7/14/2012 1:07:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/14/2012 1:07:30 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2012 1:07:30 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2012 1:07:30 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2012 1:07:30 AM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	7/14/2012 1:07:30 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
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
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** TW-7 @1.5'**Project:** Enterprise Gallegos Well Tie Line #9089**Collection Date:** 7/6/2012 9:37:00 AM**Lab ID:** 1207212-007**Matrix:** SOIL**Received Date:** 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/10/2012 6:52:23 PM
Surr: DNOP	105	77.6-140		%REC	1	7/10/2012 6:52:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2012 1:36:14 AM
Surr: BFB	98.5	69.7-121		%REC	1	7/14/2012 1:36:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/14/2012 1:36:14 AM
Toluene	ND	0.049		mg/Kg	1	7/14/2012 1:36:14 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2012 1:36:14 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/14/2012 1:36:14 AM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	7/14/2012 1:36:14 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TW-8 @1'

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 9:30:00 AM

Lab ID: 1207212-008

Matrix: SOIL

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/10/2012 7:18:00 PM
Surr: DNOP	102	77.6-140		%REC	1	7/10/2012 7:18:00 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2012 2:04:56 AM
Surr: BFB	98.3	69.7-121		%REC	1	7/14/2012 2:04:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/14/2012 2:04:56 AM
Toluene	ND	0.050		mg/Kg	1	7/14/2012 2:04:56 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2012 2:04:56 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/14/2012 2:04:56 AM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	7/14/2012 2:04:56 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-1

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 12:55:00 PM

Lab ID: 1207212-009

Matrix: AQUEOUS

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/10/2012 12:18:12 PM
Surr: DNOP	130	61.3-164		%REC	1	7/10/2012 12:18:12 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/12/2012 5:15:37 PM
Surr: BFB	90.3	69.3-120		%REC	2	7/12/2012 5:15:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.0		µg/L	2	7/12/2012 5:15:37 PM
Toluene	2.2	2.0		µg/L	2	7/12/2012 5:15:37 PM
Ethylbenzene	ND	2.0		µg/L	2	7/12/2012 5:15:37 PM
Xylenes, Total	ND	4.0		µg/L	2	7/12/2012 5:15:37 PM
Surr: 4-Bromofluorobenzene	84.7	55-140		%REC	2	7/12/2012 5:15:37 PM

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TW-2

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 12:45:00 PM

Lab ID: 1207212-010

Matrix: AQUEOUS

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/10/2012 12:44:06 PM
Surr: DNOP	129	61.3-164		%REC	1	7/10/2012 12:44:06 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/12/2012 5:45:47 PM
Surr: BFB	97.2	69.3-120		%REC	2	7/12/2012 5:45:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.0		µg/L	2	7/12/2012 5:45:47 PM
Toluene	4.2	2.0		µg/L	2	7/12/2012 5:45:47 PM
Ethylbenzene	ND	2.0		µg/L	2	7/12/2012 5:45:47 PM
Xylenes, Total	ND	4.0		µg/L	2	7/12/2012 5:45:47 PM
Surr: 4-Bromofluorobenzene	93.7	55-140		%REC	2	7/12/2012 5:45:47 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
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
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Analytical ReportLab Order **1207212**Date Reported: **7/17/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** TW-3**Project:** Enterprise Gallegos Well Tie Line #9089**Collection Date:** 7/6/2012 12:25:00 PM**Lab ID:** 1207212-011**Matrix:** AQUEOUS**Received Date:** 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	7.0	1.0		mg/L	1	7/10/2012 1:09:57 PM
Surr: DNOP	133	61.3-164		%REC	1	7/10/2012 1:09:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	6.0	1.0		mg/L	20	7/13/2012 3:50:47 AM
Surr: BFB	98.3	69.3-120		%REC	20	7/13/2012 3:50:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	220	20		µg/L	20	7/13/2012 3:50:47 AM
Toluene	770	20		µg/L	20	7/13/2012 3:50:47 AM
Ethylbenzene	75	20		µg/L	20	7/13/2012 3:50:47 AM
Xylenes, Total	1400	40		µg/L	20	7/13/2012 3:50:47 AM
Surr: 4-Bromofluorobenzene	99.3	55-140		%REC	20	7/13/2012 3:50:47 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 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
 RL Reporting Detection Limit
 U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207212

Date Reported: 7/17/2012

CLIENT: Animas Environmental Services

Client Sample ID: TW-5

Project: Enterprise Gallegos Well Tie Line #9089

Collection Date: 7/6/2012 12:38:00 PM

Lab ID: 1207212-012

Matrix: AQUEOUS

Received Date: 7/7/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/10/2012 1:35:55 PM
Surr: DNOP	131	61.3-164		%REC	1	7/10/2012 1:35:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.053	0.050		mg/L	1	7/12/2012 6:16:00 PM
Surr: BFB	97.9	69.3-120		%REC	1	7/12/2012 6:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	2.2	1.0		µg/L	1	7/12/2012 6:16:00 PM
Toluene	7.6	1.0		µg/L	1	7/12/2012 6:16:00 PM
Ethylbenzene	ND	1.0		µg/L	1	7/12/2012 6:16:00 PM
Xylenes, Total	4.8	2.0		µg/L	1	7/12/2012 6:16:00 PM
Surr: 4-Bromofluorobenzene	97.4	55-140		%REC	1	7/12/2012 6:16:00 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
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
RL Reporting Detection Limit
U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	MB-2755		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	PBS		Batch ID:	2755		RunNo:	3905				
Prep Date:	7/10/2012		Analysis Date:	7/10/2012		SeqNo:	112276		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	11		10.00		113	77.6	140				

Sample ID	LCS-2755		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 2755		RunNo: 3905					
Prep Date:	7/10/2012		Analysis Date: 7/10/2012		SeqNo: 112346		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	71.5	52.6	130			
Surr: DNOP	5.0		5.000		99.6	77.6	140			

Sample ID	1207263-005AMS		SampType: MS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC		Batch ID: 2755		RunNo: 3924					
Prep Date:	7/10/2012		Analysis Date: 7/10/2012		SeqNo: 112423		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	100	10	50.15	39.14	125	57.2	146			
Surr: DNOP	15		15.05		97.1	77.6	140			

Sample ID	1207263-005AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	2755		RunNo:	3924				
Prep Date:	7/10/2012		Analysis Date:	7/10/2012		SeqNo:	112424		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	100	10	50.45	39.14	123	57.2	146	0.579	24.5		
Surr: DNOP	15		15.14		102	77.6	140	0	0		

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-12

Client: Animas Environmental Services

Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	MB-2750	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	PBW	Batch ID:	2750	RunNo:	3924					
Prep Date:	7/10/2012	Analysis Date:	7/10/2012	SeqNo:	111554	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.3		1.000		128	61.3	164			

Sample ID	LCS-2750	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSW	Batch ID:	2750	RunNo:	3924					
Prep Date:	7/10/2012	Analysis Date:	7/10/2012	SeqNo:	111555	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	4.5	1.0	5.000	0	89.1	74	157			
Surr: DNOP	0.52		0.5000		104	61.3	164			

Sample ID	LCSD-2750	SampType:	LCSD	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSS02	Batch ID:	2750	RunNo:	3924					
Prep Date:	7/10/2012	Analysis Date:	7/10/2012	SeqNo:	111879	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	5.1	1.0	5.000	0	103	74	157	14.3	23	
Surr: DNOP	0.54		0.5000		108	61.3	164	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	MB-2752	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	2752	RunNo:	3991					
Prep Date:	7/10/2012	Analysis Date:	7/11/2012	SeqNo:	114095	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		90.7	69.7	121			

Sample ID	1207185-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	2752	RunNo:	3991					
Prep Date:	7/10/2012	Analysis Date:	7/11/2012	SeqNo:	114099	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	28	24	23.52	5.637	95.8	85.4	147			
Surr: BFB	4500		4704		95.1	69.7	121			

Sample ID	1207185-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	2752	RunNo:	3991					
Prep Date:	7/10/2012	Analysis Date:	7/11/2012	SeqNo:	114100	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	26	23	23.30	5.637	87.8	85.4	147	7.67	19.2	
Surr: BFB	4300		4660		92.9	69.7	121	0	0	

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/12/2012	SeqNo:	114782	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	940		1000		94.2	69.7	121			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/12/2012	SeqNo:	114783	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	98.5	133			
Surr: BFB	940		1000		94.4	69.7	121			

Sample ID	1207464-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/13/2012	SeqNo:	114785	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	28	5.0	21.30	7.764	94.1	85.4	147			
Surr: BFB	830		852.2		97.5	69.7	121			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-12

Client: Animas Environmental Services

Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	1207464-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/13/2012	SeqNo:	114786	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	21.30	7.764	91.4	85.4	147	2.07	19.2	
Surr: BFB	810		852.2		95.5	69.7	121	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/12/2012	SeqNo:	114791	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		94.2	69.3	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/12/2012	SeqNo:	114792	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	101	101	123			
Surr: BFB	19		20.00		94.4	69.3	120			

Sample ID	1207212-009AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	TW-1	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/13/2012	SeqNo:	114859	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.0	0.10	1.000	0.05880	96.3	75.4	121			
Surr: BFB	36		40.00		90.8	69.3	120			

Sample ID	1207212-009AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	TW-1	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/13/2012	SeqNo:	114860	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.98	0.10	1.000	0.05880	91.8	75.4	121	4.44	10.5	
Surr: BFB	38		40.00		95.2	69.3	120	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	1207187-001AMS	SampType:	MS	TestCode: EPA Method 8021B: Volatiles						
Client ID:	BatchQC	Batch ID:	2752	RunNo: 3991						
Prep Date:	7/10/2012	Analysis Date:	7/11/2012	SeqNo: 114129			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9804	0.006969	102	67.2	113			
Toluene	1.0	0.049	0.9804	0.007790	104	62.1	116			
Ethylbenzene	1.0	0.049	0.9804	0	103	67.9	127			
Xylenes, Total	3.0	0.098	2.941	0	103	60.6	134			
Surr: 4-Bromofluorobenzene	0.90		0.9804		92.2	80	120			

Sample ID	1207187-001AMSD			SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:		2752		RunNo:	3991			
Prep Date:	7/10/2012		Analysis Date:		7/11/2012		SeqNo:	114130		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.98	0.047	0.9407	0.006969	103	67.2	113	3.34	14.3		
Toluene	1.0	0.047	0.9407	0.007790	107	62.1	116	1.09	15.9		
Ethylbenzene	1.0	0.047	0.9407	0	107	67.9	127	0.598	14.4		
Xylenes, Total	3.0	0.094	2.822	0	107	60.6	134	0.0625	12.6		
Surr: 4-Bromofluorobenzene	0.88		0.9407		93.3	80	120	0	0		

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R3996	RunNo:	3996					
Prep Date:		Analysis Date:	7/12/2012	SeqNo:	114889	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R3996	RunNo:	3996					
Prep Date:	Analysis Date: 7/12/2012			SeqNo:	114890	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	76.3	117			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	77	116			
Xylenes, Total	3.3	0.10	3.000	0	109	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-'2

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	1207464-002AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	R3996		RunNo:	3996			
Prep Date:			Analysis Date:	7/13/2012		SeqNo:	114893	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.056	0.003906	97.2	67.2	113			
Toluene	0.99	0.050	1.056	0.01235	92.3	62.1	116			
Ethylbenzene	1.1	0.050	1.056	0.01035	100	67.9	127			
Xylenes, Total	3.4	0.10	3.167	0.03885	105	60.6	134			
Surr: 4-Bromofluorobenzene	0.92		1.056		87.0	80	120			

Sample ID	1207464-002AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	R3996		RunNo:	3996			
Prep Date:			Analysis Date:	7/13/2012		SeqNo:	114894	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.056	0.003906	95.2	67.2	113	2.09	14.3	
Toluene	0.96	0.050	1.056	0.01235	89.3	62.1	116	3.19	15.9	
Ethylbenzene	1.0	0.050	1.056	0.01035	97.1	67.9	127	2.98	14.4	
Xylenes, Total	3.3	0.10	3.167	0.03885	102	60.6	134	3.27	12.6	
Surr: 4-Bromofluorobenzene	1.2		1.056		110	80	120	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207212

17-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie Line #90898

Sample ID	5ML RB		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBW		Batch ID:	R3996		RunNo:	3996			
Prep Date:			Analysis Date:	7/12/2012		SeqNo:	114898	Units:	µg/L	
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	19		20.00		95.4	55	140			

Sample ID	100NG BTEX LCS		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSW		Batch ID:	R3996		RunNo:	3996			
Prep Date:			Analysis Date:	7/12/2012		SeqNo:	114899	Units:	µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	80	120			
Toluene	22	1.0	20.00	0	109	80	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	65	2.0	60.00	0	109	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		112	55	140			

Sample ID	1207212-010AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	TW-2		Batch ID:	R3996		RunNo:	3996			
Prep Date:			Analysis Date:	7/12/2012		SeqNo:	114902	Units:	µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	41	2.0	40.00	1.084	101	70.1	118			
Toluene	45	2.0	40.00	4.248	102	72.3	117			
Ethylbenzene	42	2.0	40.00	0.5840	103	73.5	117			
Xylenes, Total	130	4.0	120.0	2.700	107	73.1	119			
Surr: 4-Bromofluorobenzene	39		40.00		98.3	55	140			

Sample ID	1207212-010AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	TW-2		Batch ID:	R3996		RunNo:	3996			
Prep Date:			Analysis Date:	7/12/2012		SeqNo:	114903	Units:	µg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	40	2.0	40.00	1.084	98.1	70.1	118	2.61	16.4	
Toluene	44	2.0	40.00	4.248	98.6	72.3	117	2.96	13.9	
Ethylbenzene	41	2.0	40.00	0.5840	100	73.5	117	2.78	13.5	
Xylenes, Total	130	4.0	120.0	2.700	104	73.1	119	2.55	12.9	
Surr: 4-Bromofluorobenzene	37		40.00		92.7	55	140	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1207212

Received by/date:

mg 07/07/12

Logged By:

Ashley Gallegos

7/7/2012 10:30:00 AM

Ag

Completed By:

Ashley Gallegos

7/9/2012 9:37:27 AM

Ag

Reviewed By:

[Signature]

07/09/12

Chain of Custody

1. Were seals intact? Yes No Not Present ✓
2. Is Chain of Custody complete? Yes ✓ No Not Present
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ✓ No NA
5. Was an attempt made to cool the samples? Yes ✓ No NA
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ✓ No NA
7. Sample(s) in proper container(s)? Yes ✓ No
8. Sufficient sample volume for indicated test(s)? Yes ✓ No
9. Are samples (except VOA and ONG) properly preserved? Yes ✓ No
10. Was preservative added to bottles? Yes No ✓ NA
11. VOA vials have zero headspace? Yes ✓ No No VOA Vials
12. Were any sample containers received broken? Yes No ✓
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ✓ No # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody? Yes ✓ No (<2 or >12 unless noted)
15. Is it clear what analyses were requested? Yes ✓ No Adjusted?
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ✓ No Checked by:

Special Handling (if applicable)

17. 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:

18. Additional remarks:

19. Cooler Information

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



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

July 25, 2012

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-1776
FAX (505) 324-2022

RE: Enterprise Gallegos Well Tie #90898, Gallegos #2

OrderNo.: 1207447

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/11/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1207447

Date Reported: 7/25/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-9 @1.5'

Project: Enterprise Gallegos Well Tie #90898, Ga

Collection Date: 7/9/2012 3:18:00 PM

Lab ID: 1207447-001

Matrix: SOIL

Received Date: 7/11/2012 9:42:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/16/2012 7:58:52 AM
Surr: DNOP	99.4	77.6-140		%REC	1	7/16/2012 7:58:52 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	7/18/2012 8:25:28 PM
Toluene	ND	0.049		mg/Kg	1	7/18/2012 8:25:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/18/2012 8:25:28 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/18/2012 8:25:28 PM
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	1	7/18/2012 8:25:28 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	7/18/2012 8:25:28 PM
Surr: Dibromofluoromethane	90.4	70-130		%REC	1	7/18/2012 8:25:28 PM
Surr: Toluene-d8	99.4	70-130		%REC	1	7/18/2012 8:25:28 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/18/2012 8:25:28 PM
Surr: BFB	102	70-130		%REC	1	7/18/2012 8:25:28 PM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Analytical Report

Lab Order 1207447

Date Reported: 7/25/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-10 @1.5'

Project: Enterprise Gallegos Well Tie #90898, Ga

Collection Date: 7/9/2012 4:25:00 PM

Lab ID: 1207447-002

Matrix: SOIL

Received Date: 7/11/2012 9:42:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/16/2012 9:04:26 AM
Surr: DNOP	103	77.6-140		%REC	1	7/16/2012 9:04:26 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	7/18/2012 8:53:44 PM
Toluene	ND	0.047		mg/Kg	1	7/18/2012 8:53:44 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/18/2012 8:53:44 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/18/2012 8:53:44 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	7/18/2012 8:53:44 PM
Surr: 4-Bromofluorobenzene	99.6	70-130		%REC	1	7/18/2012 8:53:44 PM
Surr: Dibromofluoromethane	89.6	70-130		%REC	1	7/18/2012 8:53:44 PM
Surr: Toluene-d8	98.4	70-130		%REC	1	7/18/2012 8:53:44 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/18/2012 8:53:44 PM
Surr: BFB	99.6	70-130		%REC	1	7/18/2012 8:53:44 PM

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

U Samples with CalcVal < MDL

Analytical Report

Lab Order 1207447

Date Reported: 7/25/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** TW-11 @1.5'**Project:** Enterprise Gallegos Well Tie #90898, Ga**Collection Date:** 7/9/2012 3:25:00 PM**Lab ID:** 1207447-003**Matrix:** SOIL**Received Date:** 7/11/2012 9:42:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/16/2012 9:26:17 AM
Surr: DNOP	105	77.6-140		%REC	1	7/16/2012 9:26:17 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	7/18/2012 9:21:56 PM
Toluene	ND	0.047		mg/Kg	1	7/18/2012 9:21:56 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/18/2012 9:21:56 PM
Xylenes, Total	ND	0.094		mg/Kg	1	7/18/2012 9:21:56 PM
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%REC	1	7/18/2012 9:21:56 PM
Surr: 4-Bromofluorobenzene	99.6	70-130		%REC	1	7/18/2012 9:21:56 PM
Surr: Dibromofluoromethane	93.0	70-130		%REC	1	7/18/2012 9:21:56 PM
Surr: Toluene-d8	96.8	70-130		%REC	1	7/18/2012 9:21:56 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/18/2012 9:21:56 PM
Surr: BFB	99.6	70-130		%REC	1	7/18/2012 9:21:56 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Analytical Report

Lab Order 1207447

Date Reported: 7/25/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-12 @1.5'

Project: Enterprise Gallegos Well Tie #90898, Ga

Collection Date: 7/9/2012 4:40:00 PM

Lab ID: 1207447-004

Matrix: SOIL

Received Date: 7/11/2012 9:42:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/16/2012 9:48:06 AM
Surr: DNOP	103	77.6-140		%REC	1	7/16/2012 9:48:06 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	7/18/2012 9:50:05 PM
Toluene	ND	0.048		mg/Kg	1	7/18/2012 9:50:05 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/18/2012 9:50:05 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/18/2012 9:50:05 PM
Surr: 1,2-Dichloroethane-d4	99.3	70-130		%REC	1	7/18/2012 9:50:05 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	7/18/2012 9:50:05 PM
Surr: Dibromofluoromethane	94.3	70-130		%REC	1	7/18/2012 9:50:05 PM
Surr: Toluene-d8	99.0	70-130		%REC	1	7/18/2012 9:50:05 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/18/2012 9:50:05 PM
Surr: BFB	102	70-130		%REC	1	7/18/2012 9:50:05 PM

Qualifiers:

- * /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** TW-10
Project: Enterprise Gallegos Well Tie #90898, Ga **Collection Date:** 7/9/2012 1:45:00 PM
Lab ID: 1207447-005 **Matrix:** AQUEOUS **Received Date:** 7/11/2012 9:42:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.5		mg/L	1	7/12/2012 7:36:27 PM
Surr: DNOP	130	79.5-166		%REC	1	7/12/2012 7:36:27 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	2.0		µg/L	2	7/17/2012 5:58:24 PM
Toluene	ND	2.0		µg/L	2	7/17/2012 5:58:24 PM
Ethylbenzene	ND	2.0		µg/L	2	7/17/2012 5:58:24 PM
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	7/17/2012 5:58:24 PM
Xylenes, Total	ND	4.0		µg/L	2	7/17/2012 5:58:24 PM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	2	7/17/2012 5:58:24 PM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	2	7/17/2012 5:58:24 PM
Surr: Dibromofluoromethane	89.4	70-130		%REC	2	7/17/2012 5:58:24 PM
Surr: Toluene-d8	99.2	70-130		%REC	2	7/17/2012 5:58:24 PM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/17/2012 5:58:24 PM
Surr: BFB	111	70-130		%REC	2	7/17/2012 5:58:24 PM

Qualifiers:	*X	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
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL
				Page 5 of 13

Analytical Report

Lab Order 1207447

Date Reported: 7/25/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-8

Project: Enterprise Gallegos Well Tie #90898, Ga

Collection Date: 7/9/2012 10:55:00 AM

Lab ID: 1207447-006

Matrix: AQUEOUS

Received Date: 7/11/2012 9:42:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	1.1	1.0		mg/L	1	7/12/2012 7:58:11 PM
Surr: DNOP	137	79.5-166		%REC	1	7/12/2012 7:58:11 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	3.7	2.0		µg/L	2	7/17/2012 6:26:38 PM
Toluene	4.1	2.0		µg/L	2	7/17/2012 6:26:38 PM
Ethylbenzene	ND	2.0		µg/L	2	7/17/2012 6:26:38 PM
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	7/17/2012 6:26:38 PM
Xylenes, Total	ND	4.0		µg/L	2	7/17/2012 6:26:38 PM
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%REC	2	7/17/2012 6:26:38 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%REC	2	7/17/2012 6:26:38 PM
Surr: Dibromofluoromethane	93.9	70-130		%REC	2	7/17/2012 6:26:38 PM
Surr: Toluene-d8	104	70-130		%REC	2	7/17/2012 6:26:38 PM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/17/2012 6:26:38 PM
Surr: BFB	96.2	70-130		%REC	2	7/17/2012 6:26:38 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207447

25-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie #90898, Gallegos

Sample ID	MB-2821		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	PBS		Batch ID:	2821		RunNo:	4037			
Prep Date:	7/15/2012		Analysis Date:	7/16/2012		SeqNo:	115383		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	11		10.00		110	77.6	140			

Sample ID	LCS-2821		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	2821		RunNo:	4037			
Prep Date:	7/15/2012		Analysis Date:	7/16/2012		SeqNo:	115384		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	71.5	52.6	130			
Surr: DNOP	4.9		5.000		97.9	77.6	140			

Sample ID	1207447-001AMS		SampType:	MS		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	TW-9 @1.5'		Batch ID:	2821		RunNo:	4037			
Prep Date:	7/15/2012		Analysis Date:	7/16/2012		SeqNo:	115386		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.8	49.21	0	73.6	57.2	146			
Surr: DNOP	4.0		4.921		81.8	77.6	140			

Sample ID	1207447-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	TW-9 @1.5'		Batch ID:	2821		RunNo:	4037			
Prep Date:	7/15/2012		Analysis Date:	7/16/2012		SeqNo:	115387		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	9.9	49.46	0	71.4	57.2	146	2.54	24.5	
Surr: DNOP	3.9		4.946		77.9	77.6	140	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207447

25-Jul-'12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie #90898, Gallegos

Sample ID	MB-2787		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	PBW		Batch ID:	2787		RunNo:	3976			
Prep Date:	7/11/2012		Analysis Date:	7/11/2012		SeqNo:	113665		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.4		1.000		138	61.3	164			

Sample ID	LCS-2787		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	LCSSW		Batch ID:	2787		RunNo:	3976			
Prep Date:	7/11/2012		Analysis Date:	7/11/2012		SeqNo:	113666		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.5	1.0	5.000	0	90.2	74	157			
Surr: DNOP	0.54		0.5000		108	61.3	164			

Sample ID	LCSD-2787		SampType:	LCSD		TestCode:	EPA Method 8015B: Diesel Range			
Client ID:	LCSS02		Batch ID:	2787		RunNo:	3976			
Prep Date:	7/11/2012		Analysis Date:	7/11/2012		SeqNo:	113667		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.7	1.0	5.000	0	94.9	74	157	5.02	23	
Surr: DNOP	0.57		0.5000		114	61.3	164	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207447

25-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie #90898, Gallegos

Sample ID	mb-2798		SampType:	MBLK		TestCode:	EPA Method 8260B: Volatiles Short List			
Client ID:	PBS		Batch ID:	2798		RunNo:	4142			
Prep Date:	7/12/2012		Analysis Date:	7/18/2012		SeqNo:	118488		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: 1,2-Dichloroethane-d4	0.48		0.5000		96.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.9	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.4	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Sample ID	lcs-2798		SampType:	LCS		TestCode:	EPA Method 8260B: Volatiles Short List			
Client ID:	LCSS		Batch ID:	2798		RunNo:	4142			
Prep Date:	7/12/2012		Analysis Date:	7/18/2012		SeqNo:	118489		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	113	70.7	123			
Toluene	1.0	0.050	1.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.5	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.48		0.5000		96.0	70	130			

Sample ID	1207447-001ams		SampType:	MS		TestCode:	EPA Method 8260B: Volatiles Short List			
Client ID:	TW-9 @1.5'		Batch ID:	2798		RunNo:	4142			
Prep Date:	7/12/2012		Analysis Date:	7/18/2012		SeqNo:	118490		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.049	0.9747	0	90.1	81.3	119			
Toluene	0.86	0.049	0.9747	0	88.5	75	121			
Surr: 1,2-Dichloroethane-d4	0.49		0.4873		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.4873		102	70	130			
Surr: Dibromofluoromethane	0.47		0.4873		97.1	70	130			
Surr: Toluene-d8	0.50		0.4873		103	70	130			

Sample ID	1207447-001amsd		SampType:	MSD		TestCode:	EPA Method 8260B: Volatiles Short List			
Client ID:	TW-9 @1.5'		Batch ID:	2798		RunNo:	4142			
Prep Date:	7/12/2012		Analysis Date:	7/19/2012		SeqNo:	118491		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.049	0.9891	0	86.3	81.3	119	2.82	15.7	
Toluene	0.82	0.049	0.9891	0	82.5	75	121	5.61	16.2	
Surr: 1,2-Dichloroethane-d4	0.47		0.4946		94.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4946		101	70	130	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207447

25-Jul-'2

Client: Animas Environmental Services

Project: Enterprise Gallegos Well Tie #90898, Gallegos

Sample ID	1207447-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	TW-9 @1.5'	Batch ID:	2798	RunNo:	4142					
Prep Date:	7/12/2012	Analysis Date:	7/19/2012	SeqNo:	118491	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.46		0.4946		92.9	70	130	0	0	
Surr: Toluene-d8	0.47		0.4946		95.4	70	130	0	0	

Sample ID	mb-2878	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	2878	RunNo:	4161					
Prep Date:	7/18/2012	Analysis Date:	7/19/2012	SeqNo:	119464	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.7	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.0	70	130			
Surr: Toluene-d8	0.47		0.5000		94.9	70	130			

Sample ID	lcs-2878	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	2878	RunNo:	4161					
Prep Date:	7/18/2012	Analysis Date:	7/19/2012	SeqNo:	119480	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.2	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.7	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.1	70	130			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207447

25-Jul-12

Client: Animas Environmental Services

Project: Enterprise Gallegos Well Tie #90898, Gallegos

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117443	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	84.1	126			
Toluene	20	1.0	20.00	0	98.7	80	120			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.7	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD 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

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207447

25-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie #90898, Gallegos

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117413	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	490		500.0		98.5	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117414	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	99.2	85	115			
Surr: BFB	490		500.0		98.7	70	130			

Sample ID	1207420-005A MS	SampType:	MS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/18/2012	SeqNo:	117415	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	15	5.0	16.42	0	94.1	70	130			
Surr: BFB	310		328.3		92.9	70	130			

Sample ID	1207420-005A MSD	SampType:	MSD	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/18/2012	SeqNo:	117416	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	15	5.0	16.42	0	93.5	70	130	0.597	20	
Surr: BFB	300		328.3		91.9	70	130	0	0	

Sample ID	mb-2798	SampType:	MBLK	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	2798	RunNo:	4142					
Prep Date:	7/12/2012	Analysis Date:	7/18/2012	SeqNo:	118395	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	490		500.0		97.9	70	130			

Sample ID	LCS-2798	SampType:	LCS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	2798	RunNo:	4142					
Prep Date:	7/12/2012	Analysis Date:	7/18/2012	SeqNo:	118396	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	99.0	85	115			
Surr: BFB	470		500.0		93.4	70	130			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207447

25-Jul-12

Client: Animas Environmental Services
Project: Enterprise Gallegos Well Tie #90898, Gallegos

Sample ID	5ml rb	SampType:	MBLK	TestCode:	Modified EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117394	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	9.8		10.00		98.5	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	Modified EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117397	Units:	mg/L			
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	99.2	85	115			
Surr: BFB	9.9		10.00		98.7	70	130			

Sample ID	1207596-001A MS	SampType:	MS	TestCode:	Modified EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117407	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.6	70	130			
Surr: BFB	9.7		10.00		96.9	70	130			

Sample ID	1207596-001A MSD	SampType:	MSD	TestCode:	Modified EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R4094	RunNo:	4094					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117408	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.3	70	130	4.40	20	
Surr: BFB	9.9		10.00		99.5	70	130	0	0	

Sample ID	5ml rb	SampType:	MBLK	TestCode:	Modified EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R4142	RunNo:	4142					
Prep Date:		Analysis Date:	7/18/2012	SeqNo:	118384	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	10		10.00		103	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	Modified EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R4142	RunNo:	4142					
Prep Date:		Analysis Date:	7/18/2012	SeqNo:	118386	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	9.5		10.00		95.1	70	130			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
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: 1207447

Received by/date:

[Signature]

07/11/12

Logged By: Ashley Gallegos

7/11/2012 9:42:00 AM

[Signature]

Completed By: Ashley Gallegos

7/11/2012 5:41:32 PM

[Signature]

Reviewed By:

[Signature]

07/12/12

Chain of Custody

1. Were seals intact? Yes No Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No Not Present
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No NA
5. Was an attempt made to cool the samples? Yes ☒ No NA
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No NA
7. Sample(s) in proper container(s)? Yes ☒ No
8. Sufficient sample volume for indicated test(s)? Yes ☒ No
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No
10. Was preservative added to bottles? Yes No ☒ NA
11. VOA vials have zero headspace? Yes ☒ No No VOA Vials
12. Were any sample containers received broken? Yes No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No (<2 or >12 unless noted)
15. Is it clear what analyses were requested? Yes ☒ No Adjusted?
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No Checked by:

Special Handling (if applicable)

17. 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:

18. Additional remarks: 1207447-005A pH=2.6 at 7/18/12

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

