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GWMR

09/13/2012



www.animasenvironmental.com

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Prepared for:

Mr. Glenn von Gonten New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Prepared on behalf of:

Enterprise Products Company 614 Reilly Avenue Farmington, NM 87401

> Groundwater Investigation Report Enterprise Products Company Smyers LS #1 Pipeline Release SW¼ SW¼, Section 2, T31N, R11W San Juan County, New Mexico

September 13, 2012

Prepared by:

Animas Environmental Services, LLC 624 E. Comanche Farmington, New Mexico 87401 www.animasenvironmental.com

Contents

1.0 Intr	roduction
	Site Location and NMOCD Ranking
2.0 Grd	oundwater Investigation – June 2012
2.2 G	HydroPunch Investigation
3.0 Gr	oundwater Investigation Results
	Water Quality Measurements
4.0 Cor	nclusions and Recommendations 5
5.0 Cer	tification 6
6.0 Ref	ferences 7
Figures	S
Figure 1	
Figure 2 Figure 3	·
Appen	dices

Groundwater Laboratory Analytical Report Groundwater Sampling Forms

1.0 Introduction

Animas Environmental Services, LLC (AES), on behalf of Enterprise Products Company, Inc. (Enterprise), has prepared this Groundwater Investigation Report for the Smyers LS #1 pipeline release that was discovered and confirmed in December 2011. This investigation was conducted in accordance with the AES work plan entitled *Groundwater Investigation Work Plan for the Smyers LS #1* dated May 24, 2012, and submitted to Enterprise, New Mexico Oil Conservation Division (NMOCD), and Bureau of Land Management (BLM).

1.1 Site Location and NMOCD Ranking

The release area is located on federal land under jurisdiction of the BLM within the SW¼ SW¾, Section 2, T31N, R11W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36.9234 and W107.96485, respectively. The release is located within an ephemeral stream identified as Kiffen Wash, which discharges directly into the Animas River approximately 2.5 miles to the southeast. A topographic site location map is included as Figure 1, and an aerial site map showing the release location is included as Figure 2.

In accordance with the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993) and prior to the initial assessment, the release location was assigned a ranking score to establish release action levels. 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 downgradient surface water, and a natural spring was identified approximately 800 feet down gradient of the release location. Groundwater was assumed to be less than 20 feet below ground surface (bgs) since the location of the release is in Kiffen Wash. Due to these factors, the release location was assessed a ranking score of 20.

1.2 Initial Release Assessment, December 2011 and January 2012

A release was reported at the location on December 26, 2011, and the cause of the release was attributed to two ruptures in the pipeline due to freezing. On December 28, 2011, an initial release assessment was completed by AES personnel. Using a hand auger, four soil borings were each advanced to a total depth of 3 feet below ground surface (bgs), at which point groundwater was encountered. Soil samples were field screened, and confirmation

soil and water samples were collected for laboratory analysis. Soil laboratory results confirmed that soil had been impacted above NMOCD action levels for benzene, toluene, ethyl-benzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH). The highest concentrations were recorded in SB-4 with 98 mg/kg benzene, 1,800 mg/kg total BTEX, and 15,140 mg/kg TPH. The groundwater samples reported concentrations of BTEX below New Mexico Water Quality Control Commission (WQCC) standards. Based on laboratory results, remedial excavation was scheduled.

On January 12 and 13, 2012, approximately 142 cubic yards of petroleum hydrocarbon contaminated soil were excavated and transported off-site for disposal by an Enterprise contractor. The final excavation dimensions measured approximately 21 feet by 29 feet by 3 feet deep. Prior to the excavation being backfilled, AES collected confirmation soil and groundwater samples, and the results confirmed that all hydrocarbon contaminated soil had been excavated, but that groundwater had been impacted by the release. The highest concentrations of dissolved phase contaminants were reported in EXCW-1 with 15,000 μ g/L benzene, 81,000 μ g/L toluene, greater than 10,000 μ g/L ethylbenzene, and 53,000 μ g/L total xylenes. Details of the initial release assessment were submitted in the *Smyers LS #1 Release Report* prepared by AES and dated March 9, 2012.

Based on laboratory analytical results, AES recommended further assessment of the groundwater dissolved phase contaminant plume using a HydroPunch to install temporary wells.

2.0 Groundwater Investigation – June 2012

On June 20, 2012, AES completed a groundwater investigation in order to delineate the full extent of petroleum hydrocarbon impact on groundwater resulting from the release. The investigation included the installation of nine temporary wells using a HydroPunch sampling tool and the collection of groundwater samples in accordance with U.S. Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs) and applicable American Society of Testing and Materials (ASTM) standards.

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 the drilling and sampling. All employees and subcontractors 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.

2.1 HydroPunch Investigation

The release location is situated within an ephemeral wash; 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. On June 20, 2012, AES personnel installed nine temporary wells (TW-1 through TW-9) in order to define the lateral extent of groundwater impacts. The locations of the temporary wells are presented on Figure 3.

Each temporary well was installed by hand driving the HydroPunch screen with a fencepost driver. The HydroPunch screens were driven to depths ranging from 6.70 to 7.90 feet bgs. The internal slotted screen of the HydroPunch was set across the top of the shallow groundwater table at depths ranging from approximately 4.0 to 6.4 feet bgs and left in place to allow groundwater to infiltrate and reach equilibrium.

2.2 Groundwater Sampling

Groundwater was encountered at depths ranging from 4.01 feet bgs in TW-6 to 6.38 feet bgs in TW-4. Using a peristaltic pump, groundwater samples were collected from TW-1 through TW-9 for laboratory analysis. 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, water quality parameters (pH, temperature, electrical conductivity, and oxygen reduction potential) were also recorded on the groundwater sample collection forms. Once collected, all samples were preserved in laboratory-supplied containers and stored in an insulated cooler containing ice. Samples were shipped via bus to the analytical laboratory in insulated coolers containing ice at less than 6°C.

2.3 Laboratory Analyses

All groundwater samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for the following parameters:

- BTEX per USEPA Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

3.0 Groundwater Investigation Results

3.1 Water Quality Measurements

Water quality measurements were recorded prior to sample collection, and temperature readings ranged from 20.42°C in TW-6 to 26.4°C in TW-9. Conductivity readings were between 6.329 mS in TW-5 and 8.430 mS in TW-7, and pH ranged from 6.92 in TW-6 to 7.98 in TW-3. Oxidation reduction potential ranged from 143.7 mV in TW-4 down to -354.3 mV in TW-8. Water sample collection forms are included in Appendix A.

3.2 Laboratory Analytical Results

Groundwater laboratory analytical results showed that dissolved phase benzene concentrations were above the WQCC standard of 10 μ g/L in TW-2 (92 μ g/L), TW-7 (44 μ g/L), and TW-8 (150 μ g/L). TW-8 exceeded the WQCC standard of 750 μ g/L for dissolved phase toluene and ethylbenzene with 920 μ g/L and 1,200 μ g/L, respectively. Dissolved phase xylene concentrations were above the WQCC standard of 620 μ g/L in TW-2 with 1,600 μ g/L and TW-8 with 11,000 μ g/L. All other dissolved phase BTEX concentrations were below WQCC standards or below laboratory detection limits.

Dissolved phase GRO concentrations were reported in TW-1 (0.065 mg/L), TW-2 (8.2 mg/L), TW-7 (0.74 mg/L), and TW-8 (77 mg/L). Dissolved phase DRO was reported in TW-7 with a concentration of 1.2 mg/L. All other samples were below laboratory detection limits for dissolved phase TPH (as GRO/DRO). Note that WQCC standards have not been established for dissolved phase TPH (as GRO/DRO). Tabulated groundwater analytical results are presented in Table 1 and on Figure 3, and groundwater laboratory analytical reports are presented in Appendix B.

Table 1. Laboratory Analytical Results
Smyers LS #1 Groundwater Investigation, June 2012

				Ethyl-			
Sample ID	Date	Benzene (μg/L)	Toluene (μg/L)	benzene (μg/L)	Xylene (μg/L)	GRO (mg/L)	DRO (mg/L)
WQCC Sta	ndard	10	750	750	620	NE	NE
TW-1	6/20/12	<1.0	<1.0	<1.0	<2.0	0.065	<1.0
TW-2	6/20/12	92	280	280	1,600	8.2	<1.0
TW-3	6/20/12	<2.0	2.3	<2.0	<4.0	<0.10	<1.0
TW-4	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
TW-5	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
TW-6	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0

Sample ID	Date	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Xylene (μg/L)	GRO (mg/L)	DRO (mg/L)
WQCC Star	ndard	10	750	750	620	NE	NE
TW-7	6/20/12	44	<5.0	97	<10	0.74	1.2
TW-8	6/20/12	150	920	1,200	11,000	77	<10
TW-9	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0

NE- Not Established

4.0 Conclusions and Recommendations

A total of nine HydroPunch temporary wells were installed by AES on June 20, 2012, in accordance with the work plan submitted in May 2012. During the June 2012 investigation, dissolved phase benzene concentrations above WQCC standards were reported in TW-2, TW-7, and TW-8. Additionally, dissolved phase toluene and ethylbenzene concentrations exceeded WQCC standards in TW-8, and dissolved phase xylene concentrations exceeded WQCC standards in TW-2 and TW-8.

Based on laboratory analytical results from the June 2012 investigation, groundwater continues to be impacted above WQCC standards in the area of the December 2011 release. Therefore, AES recommends injection of a microbial bioremediation solution within the dissolved phase plume in Kiffen Wash with follow up groundwater sampling six months later. AES will submit a work plan under separate cover detailing an additional proposed scope of work.

5.0 Certification

I, the undersigned, am personally familiar with the information presented in this Groundwater Investigation Report, prepared on behalf of Enterprise Products Company, Inc. for the December 2011 Smyers LS #1 pipeline release. I attest that it is true and complete to the best of my knowledge.

Tami C. Ross, CHMM Project Manager

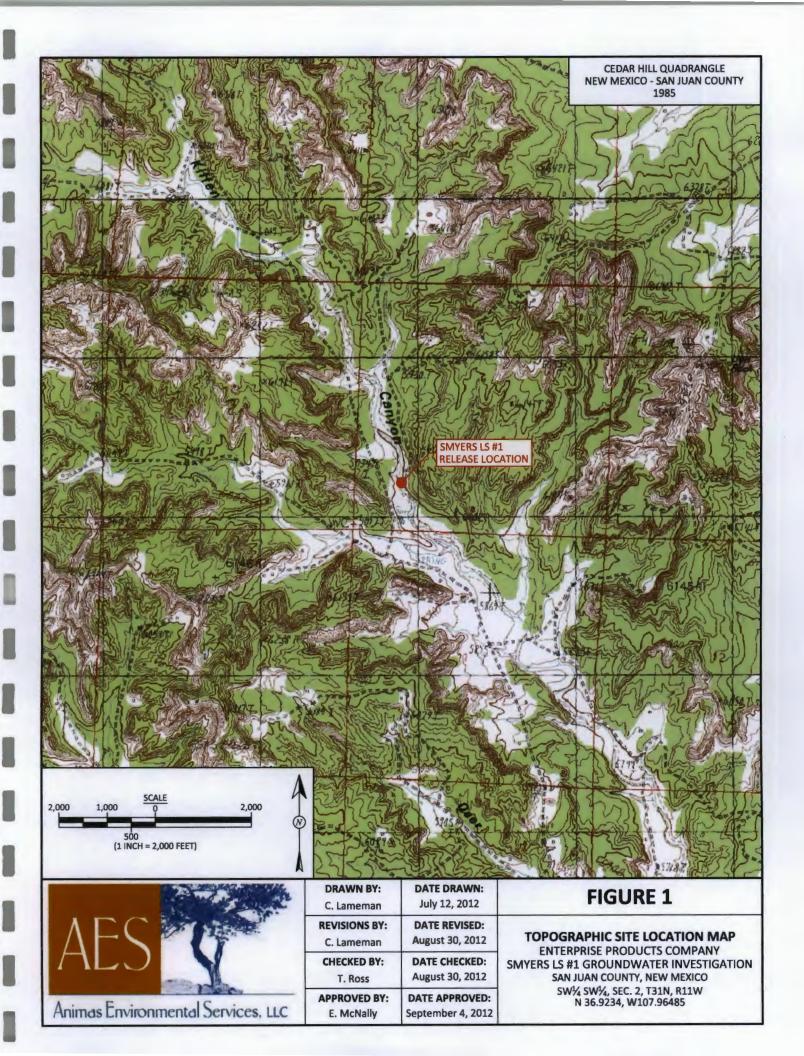
Elizabeth McNally, P.E.

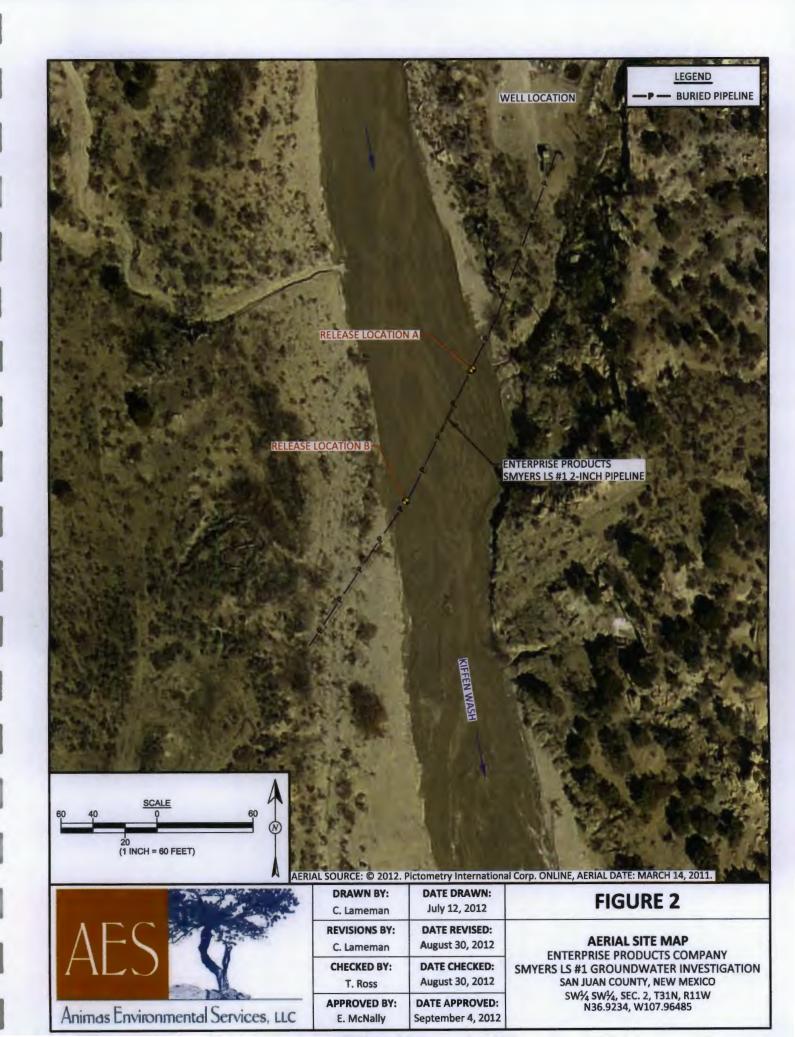
Elizabet V MeNelly.

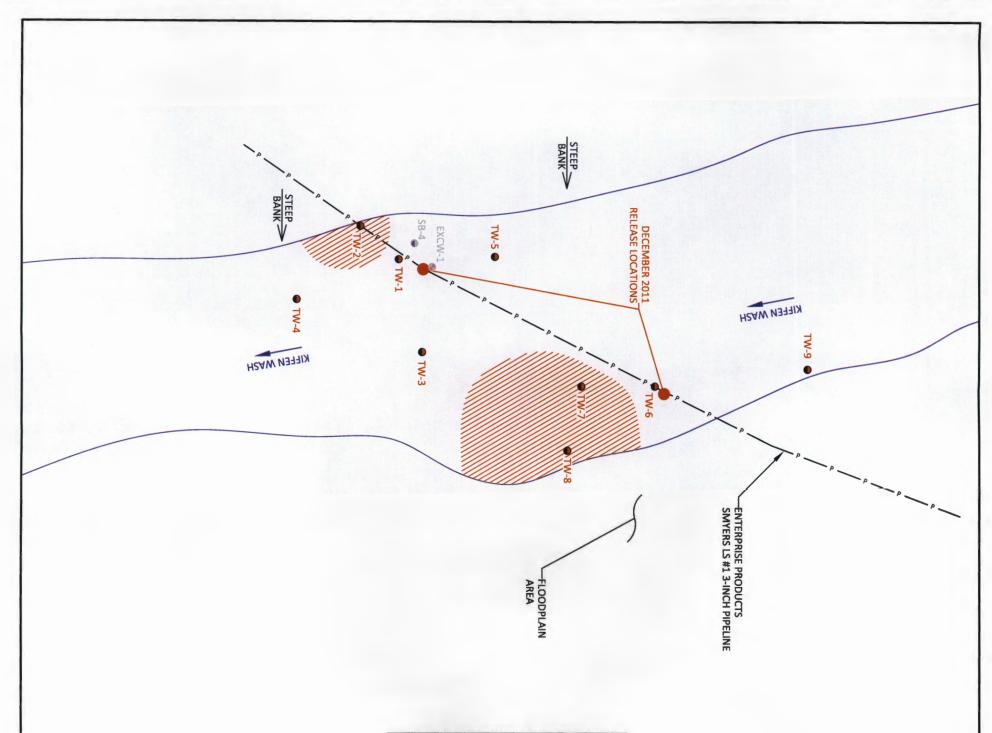
Principal

6.0 References

- American Society for Testing and Materials (ASTM) International. D5730 Guide for Site Characterization for Environmental Purposes with Emphasis on Soil, Rock, the Vadose Zone and Groundwater.
- Animas Environmental Services, LLC (AES). Smyers LS #1 Release Letter Report, Mach 9, 2012. Enterprise Products Company.
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- New Mexico Oil Conservation Division. *Guidelines for Remediation of Leaks, Spills, and Releases. August 13, 1993.*
- U.S. Environmental Protection Agency (USEPA). 1982. *Methods for Chemical Analysis for Water and Wastes*. Document EPA-600, July, 1982.
- USEPA. 1992. SW-846, 3rd Edition, *Test Methods for Evaluating Solid Waste: Physical Chemical Methods*, dated November, 1986, and as amended by Update One, July, 1992.
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- USEPA. 1997. Expedited Site Assessment Tools for Underground Storage Tank Sites. OSWER 5403G and EPA 510B-97-001, March, 1997.
- USEPA. 2001. Contract Laboratory Program (CLP) Guidance for Field Samplers. OSWER 9240.0-35, EPA 540-R-00-003. June, 2001.







		Groundw	Grodila Water Laboratory Analytical Results	ory Analysis	al Meanits		
Sample ID	Date	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	TPH- GRO (mg/L)	TPH- DRO (mg/L)
WQCC STANDARD	ANDARD	10	750	750	620	NE	NE
TW-1	6/20/12	<1.0	<1.0	<1.0	<2.0	0.065	<1.0
TW-2	6/20/12	92	280	280	1,600	8.2	<1.0
TW-3	6/20/12	<2.0	2.3	<2.0	<4.0	<0.10	<1.0
TW-4	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
TW-5	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
TW-6	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
TW-7	6/20/12	4.4	<5.0	97	<10	0.74	1.2
8-WT	6/20/12	150	920	1,200	11,000	77	<10
TW-9	6/20/12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
NE - NOT ESTABLISHED	ABLISHED						

HYDROPUNCH GROUNDWATER: SAMPLING LOCATIONS AND RESULTS JUNE 2012 ENTERPRISE PRODUCTS COMPANY SMYERS LS #1 GROUNDWATER INVESTIGATION SAN JUAN COUNTY, NEW MEXICO SWY, SWY, SEC. 2, T31N, R11W N36.9234, W107.96485 FIGURE 3

REVISIONS BY:	DRAWN BY: N. Willis	nimas Environme
DATE REVISED:	Date Drawn: December 30, 2011	nimas Environmental Services, LLC

THOS CHANCING	חוומס בוויוויכווויכוויכוו סכו זוכנס, בבכ
DRAWN BY:	DATE DRAWN:
N. Willis	December 30, 2011
REVISIONS BY:	DATE REVISED:
C. Lameman	August 30, 2012
CHECKED BY:	DATE CHECKED:
T. Ross	August 30, 2012
APPROVED BY:	DATE APPROVED:
E. McNally	September 4, 2012

LEGEND

INFERRED DISSOLVED PHASE
PLUME ABOVE WQCC STANDARDS

10 (1 INCH = 30 FEET)



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

June 28, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 486-1776 FAX: (505) 324-2022

RE: Smyers LS#1 OrderNo.: 1206984

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/22/2012 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-1

Smyers LS#1 Collection Date: 6/20/2012 3:00:00 PM Project: Lab ID: 1206984-001 Matrix: AQUEOUS Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	iΕ				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/23/2012 9:00:38 PM
Surr: DNOP	117	61.3-164	%REC	1	6/23/2012 9:00:38 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	0.065	0.050	mg/L	1	6/23/2012 2:23:22 AM
Surr: BFB	82.9	69.3-120	%REC	1	6/23/2012 2:23:22 AM
EPA METHOD 8021B: VOLATILES					Analyst: INSB
Benzene	ND	1.0	μg/L	1	6/23/2012 2:23:22 AM
Toluene	ND	1.0	μg/L	1	6/23/2012 2:23:22 AM
Ethylbenzene	ND	1.0	μg/L	1	6/23/2012 2:23:22 AM
Xylenes, Total	ND	2.0	μg/L	1	6/23/2012 2:23:22 AM
Surr: 4-Bromofluorobenzene	87.1	55-140	%REC	1	6/23/2012 2:23:22 AM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- Value above quantitation range
- Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- ND Not Detected at the Reporting Limit
- RLReporting Detection Limit

В

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Samples with CalcVal < MDL

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Page 1 of 12

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Smyers LS#1

Lab ID: 1206984-002

Project:

Client Sample ID: TW-2

Collection Date: 6/20/2012 5:10:00 PM

Matrix: AQUEOUS Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/23/2012 9:45:30 PM
Surr: DNOP	105	61.3-164	%REC	1	6/23/2012 9:45:30 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	8.2	1.0	mg/L	20	6/23/2012 2:53:20 AM
Surr: BFB	78.9	69.3-120	%REC	20	6/23/2012 2:53:20 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	92	20	μg/L	20	6/23/2012 2:53:20 AM
Toluene	280	20	μg/L	20	6/23/2012 2:53;20 AM
Ethylbenzene	280	20	μg/L	20	6/23/2012 2:53:20 AM
Xylenes, Total	1600	40	μg/L	20	6/23/2012 2:53:20 AM
Surr: 4-Bromofluorobenzene	86.9	55-140	%REC	20	6/23/2012 2:53:20 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
- No Detected at the Reporting Linit
 - RL Reporting Detection Limit
 U Samples with CalcVal < MDL
- Page 2 of 12

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-3

Project: Smyers LS#1 Collection Date: 6/20/2012 2:10:00 PM

Lab ID: 1206984-003 Matrix: AQUEOUS

Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE		*****		Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/23/2012 10:07:5:2 PM
Surr: DNOP	115	61.3-164	%REC	1	6/23/2012 10:07:5:2 PM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: INSB
Gasoline Range Organics (GRO)	ND	0.10	mg/L	2	6/23/2012 3:23:34 AM
Surr: BFB	82.5	69.3-120	%REC	2	6/23/2012 3:23:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	2.0	μg/L	2	6/23/2012 3:23:34 AM
Toluene	2.3	2.0	μg/L	2	6/23/2012 3:23:34 AM
Ethylbenzene	ND	2.0	μg/L	2	6/23/2012 3:23:34 AM
Xylenes, Total	ND	4.0	μg/L	2	6/23/2012 3:23:34 AM
Surr: 4-Bromofluorobenzene	81.9	55-140	%REC	2	6/23/2012 3:23:34 AM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits
- ND Not Detected at the Reporting Limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

RLReporting Detection Limit

В

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- Page 3 of 12
- Samples with CalcVal < MDL U

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Smyers LS#1

Lab ID: 1206984-004

Project:

Client Sample ID: TW-4

Collection Date: 6/20/2012 3:12:00 PM

Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE .				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/23/2012 10:30:20 PM
Surr: DNOP	116	61.3-164	%REC	1	6/23/2012 10:30:20 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.10	mg/L	2	6/23/2012 3:53:53 AM
Surr: BFB	85.8	69.3-120	%REC	2	6/23/2012 3:53:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	2.0	μg/L	2	6/23/2012 3:53:53 AM
Toluene	ND	2.0	μg/L	2	6/23/2012 3:53:53 AM
Ethylbenzene	ND	2.0	μg/L	2	6/23/2012 3:53:53 AM
Xylenes, Total	ND	4.0	μg/L	2	6/23/2012 3:53:53 AM
Surr: 4-Bromofluorobenzene	84.9	55-140	%REC	2	6/23/2012 3:53:53 AM

Matrix: AQUEOUS

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
- Page 4 of 12

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-5

Project: Smyers LS#1

Collection Date: 6/20/2012 4:40:00 PM

Lab ID: 1206984-005

Matrix: AQUEOUS

Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	3E				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/23/2012 10:52:33 PM
Surr: DNOP	114	61.3-164	%REC	1	6/23/2012 10:52:3 ³ PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.10	mg/L	2	6/23/2012 4:24:07 AM
Surr: BFB	83.2	69.3-120	%REC	2	6/23/2012 4:24:07 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	2.0	μg/L	2	6/23/2012 4:24:07 AM
Toluene	ND	2.0	μg/L	2	6/23/2012 4:24:07 AM
Ethylbenzene	ND	2.0	μg/L	2	6/23/2012 4:24:07 AM
Xylenes, Total	ND	4.0	μg/L	2	6/23/2012 4:24:07 AM
Surr: 4-Bromofluorobenzene	84.5	55-140	%REC	2	6/23/2012 4:24:07 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

Samples with CalcVal < MDL

RL Reporting Detection Limit

Page 5 of 12

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Smyers LS#1 **Project:**

Lab ID:

1206984-006

Client Sample ID: TW-6

Collection Date: 6/20/2012 1:25:00 PM

Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	3E				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/23/2012 11:15:02 PM
Surr: DNOP	115	61.3-164	%REC	1	6/23/2012 11:15:02 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.10	mg/L	2	6/23/2012 4:54:28 AM
Surr: BFB	79.8	69.3-120	%REC	2	6/23/2012 4:54:28 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	2.0	μg/L	2	6/23/2012 4:54:28 AM
Toluene	ND	2.0	μg/L	2	6/23/2012 4:54:28 AM
Ethylbenzene	ND	2.0	μg/L	2	6/23/2012 4:54:28 AM
Xylenes, Total	ND	4.0	μg/L	2	6/23/2012 4:54:28 AM
Surr: 4-Bromofluorobenzene	77.8	55-140	%REC	2	6/23/2012 4:54:28 AM

Matrix: AQUEOUS

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Reporting Detection Limit
 - Samples with CalcVal < MDL
- Page 6 of 12

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-7

Project: Smyers LS#1 Collection Date: 6/20/2012 1:40:00 PM

Lab ID: 1206984-007

Matrix: AQUEOUS Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE				Analyst: JMP
Diesel Range Organics (DRO)	1.2	1.0	mg/L	1	6/23/2012 11:37:13 PM
Surr: DNOP	115	61.3-164	%REC	1	6/23/2012 11:37:13 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	0.74	0.25	mg/L	5	6/25/2012 2:11:22 PM
Surr: BFB	96.6	69.3-120	%REC	5	6/25/2012 2:11:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	44	5.0	μg/L	5	6/25/2012 2:11:22 PM
Toluene	ND	5.0	μg/L	5	6/25/2012 2:11:22 PM
Ethylbenzene	97	5.0	μg/L	5	6/25/2012 2:11:22 PM
Xylenes, Total	ND	10	μg/L	5	6/25/2012 2:11:22 PM
Surr: 4-Bromofluorobenzene	104	55-140	%REC	5	6/25/2012 2:11:22 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit
 - Samples with CalcVal < MDL

Page 7 of 12

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-8

Project: Smyers LS#1

Collection Date: 6/20/2012 4:20:00 PM

Lab ID: 1206984-008

Matrix: AQUEOUS

Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/L	1	6/25/2012 11:44:26 AM
Surr: DNOP	121	61.3-164	%REC	1	6/25/2012 11:44:26 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	77	2.5	mg/L	50	6/25/2012 12:40:19 PM
Sum: BFB	119	69.3-120	%REC	50	6/25/2012 12:40:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	150	50	μg/L	50	6/25/2012 12:40:19 PM
Toluene	920	50	μg/L	50	6/25/2012 12:40:19 PM
Ethylbenzene	1200	50	μg/L	50	6/25/2012 12:40:19 PM
Xylenes, Total	11000	100	μg/L	50	6/25/2012 12:40:19 PM
Surr: 4-Bromofluorobenzene	109	55-140	%REC	50	6/25/2012 12:40:19 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

Lab Order 1206984

Date Reported: 6/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TW-9

Smyers LS#1 **Project:**

Collection Date: 6/20/2012 12:55:00 PM

1206984-009 Lab ID:

Matrix: AQUEOUS

Received Date: 6/22/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	6/23/2012 11:59:34 PM
Surr: DNOP	120	61.3-164	%REC	1	6/23/2012 11:59:34 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: INSB
Gasoline Range Organics (GRO)	ND	0.10	mg/L	2	6/25/2012 1:40:55 PM
Surr: BFB	76.4	69.3-120	%REC	2	6/25/2012 1:40:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: INSB
Benzene	ND	2.0	μg/L	2	6/25/2012 1:40:55 PM
Toluene	ND	2.0	μg/L	2	6/25/2012 1:40:55 PM
Ethylbenzene	ND	2.0	μg/L	2	6/25/2012 1:40:55 PM
Xylenes, Total	ND	4.0	μg/L	2	6/25/2012 1:40:55 PM
Surr: 4-Bromofluorobenzene	78.9	55-140	%REC	2	6/25/2012 1:40:55 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RLReporting Detection Limit
- U Samples with CalcVal < MDL

Page 9 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

0

1206984 28-Jun-12

Client:

Surr: DNOP

Animas Environmental Services

0.43

0.5000

Project: Smyers	LS#1			
Sample ID: MB-2529	SampType: MBLK	TestCode: EPA Method	8015B: Diesel Range	
Client ID: PBW	Batch ID: 2529	RunNo: 3631		
Prep Date: 6/22/2012	Analysis Date: 6/23/2012	SeqNo: 102218	Units: mg/L	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 1.0 1.1 1.000	106 61.3	164	
Sample ID: LCS-2529	SampType: LCS	TestCode: EPA Method	8015B: Diesel Range	
Client ID: LCSW	Batch ID: 2529	RunNo: 3631		
Prep Date: 6/22/2012	Analysis Date: 6/23/2012	SeqNo: 102219	Units: mg/L	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	4.6 1.0 5.000	0 92.9 74	157	
Surr: DNOP	0.40 0.5000	80.5 61.3	164	
Sample ID: LCSD-2529	SampType: LCSD	TestCode: EPA Method	8015B: Diesel Range	
Client ID: LCSS02	Batch ID: 2529	RunNo: 3631		
Prep Date: 6/22/2012	Analysis Date: 6/23/2012	SeqNo: 102220	Units: mg/L	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	4.7 1.0 5.000	0 93.6 74	157 0.710	23

85.2

61.3

164

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

Page 10 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206984

28-Jun-12

Client:

Animas Environmental Services

Project:

Smyers LS#1

Sample ID: 5ML RB	SampT	уре: МЕ	BLK	Tes	TestCode: EPA Method 8015B: Gasoline Range						
Client ID: PBW	Batch	ID: R3	644	RunNo: 3644							
Prep Date:	Analysis D	ate: 6/	22/2012	S	eqNo: 1	02662	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	20		20.00		97.9	69.3	120				

Sample ID: 2.5UG GRO LCS	SampT	ype: LC	s	Tes	TestCode: EPA Method 8015B: Gasoline Range					
Client ID: LCSW	Batch	ID: R3	644	F	RunNo: 3644					
Prep Date:	Analysis D	ate: 6/2	22/2012	S	SeqNo: 1	02663	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	94.6	101	123			S
Surr: BFB	20		20.00		98.7	69.3	120			

Sample ID: 5ML RB	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015B: Gasoline Range					
Client ID: PBW	Batch	n ID: R3	670	F	RunNo: 3670					
Prep Date:	Analysis D	oate: 6 /2	25/2012	S	SeqNo: 10	03484	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	17		20.00		85.2	69.3	120			

Sample ID: 2.5UG GRO LCS	SampTy	pe: LC	s	Test	Code: EPA Method 8015B: Gasoline Range					
Client ID: LCSW	Batch ID: R3670 RunNo: 3670									
Prep Date:	Analysis Da	ate: 6/2	25/2012	SeqNo: 103485			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.4	101	123			ξ;
Surr: BFB	20		20.00		98.0	69.3	120			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
 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

Page 11 of 12

^{*/}X Value exceeds Maximum Contaminant Level.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206984

28-Jun-12

Client:

Animas Environmental Services

Project:

Smyers LS#1

Sample ID: 5ML RB	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBW	Batch	1D: R3	644	RunNo: 3644						
Prep Date:	Analysis D	ate: 6/	22/2012	SeqNo: 102785			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	20		20.00		99.2	55	140			

Sample ID: 100NG BTEX LC	S Samp	Type: LC	S	Tes	tCode: El						
Client ID: LCSW	Batc	h ID: R3	644	F	RunNo: 3	644					
Prep Date:	Analysis [s Date: 6/22/2012 SeqNo: 102786			Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	21	1.0	20.00	0	105	80	120				
Toluene	21	1.0	20.00	0	10 7	80	120				
Ethylbenzene	21	1.0	20.00	0	107	80	120				
Xylenes, Total	64	2.0	60.00	0	107	80	120				
Surr: 4-Bromofluorobenzene	22		20.00		109	55	140				

Sample ID: 5ML RB	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID: PBW	Batch ID: R3670			F	RunNo: 3670					
Prep Date:	Analysis D	Date: 6 /	25/2012	S	SeqNo: 1	03501	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	18		20.00		88.5	55	140			

Sample ID: 100NG BTEX LCS	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batch	Batch ID: R3670 RunNo: 3670				670				
Prep Date:	Analysis D	ate: 6/	25/2012	9	SeqNo: 10	03502	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	80	120			
Toluene	22	1.0	20.00	0	111	80	120			
Ethylbenzene	22	1.0	20.00	0	110	80	120			
Xylenes, Total	66	2.0	60.00	0	110	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		112	55	140			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 12 of 12



4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

	nt Name: Animas Environmental eived by/date: AC OL (22//2	Vork Order Number: 1206984	
	'		
Logg	ged By: Anne Thorne 6/22/2012 10:00:00	A Am Sh	
Com	ewed By: Anne Thorne 6/22/2012	am Il-	·]
Revi	ewed By: 6/22/12		
<u>Cha</u>	in of Custody		
1.	Were seals intact?	Yes No Not Preser	nt 🗹
2.	Is Chain of Custody complete?	Yes 🗹 No 🗌 Not Preser	nt 🗆
3.	How was the sample delivered?	Courier	
Log	<u>In</u>		
4.	Coolers are present? (see 19. for cooler specific information)	Yes 🗹 No 🗌 N	A 🗆
5.	Was an attempt made to cool the samples?	Yes 🗹 No 🗌 No	A 🗆
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹 No 🗌 No	A 🗆
7	Sample(s) in proper container(s)?	Yes 🗹 No 🗌	
	Sufficient sample volume for indicated test(s)?	Yes 🗹 No 🗌	
	Are samples (except VOA and ONG) properly preserved?	Yes 🗹 No 🗌	
10.	Was preservative added to bottles?	Yes No 🗹	
	MOA sinta hassa mara haadanaaa?	Yes ☑ No ☐ No VOA Vial	. П
	VOA vials have zero headspace? Were any sample containers received broken?	Yes No VOA VIAI	5 L
	Does paperwork match bottle labels?	Yes V No #ofp	reserved
	(Note discrepancies on chain of custody)	for pH	s checked :
14.	Are matrices correctly identified on Chain of Custody?	Yes 🗹 No 🗌	(<2 or >12 unless noted)
	Is it clear what analyses were requested?	765 (2) 110	Adjusted?
	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✓ No 🗆	Checked by:
	cial Handling (if applicable)		
	Was client notified of all discrepancies with this order?	Yes 🗌 No 🔲 N	A ☑
	Person Notified: Date		
	By Whom: Via:	eMail Phone Fax	In Person
	Regarding:		
	Client Instructions:		
18.	Additional remarks:		
	De des la faction alla		
19.	Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date Signed By	
	1 1.0 Good Yes		

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

		Tel. (303) 304-	22011 ax (303) 324-2022
Project:	GW Sexplina	Project No.:	
Site:	Smyers L3 # (Entemplie Products Company	Date:	6/20/12
Location:		Time:	1,00
Tech:	NW. TL	Form:	

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Not	es / Observations
Tw-9		4.80		TD=6,95 TD=6,90	CH = 23" CH = 19" CH = 25" CH = 38" CH = 36"
TW6		4,01		TD= 6, 85	CH = 19"
TWA		5,80		TD=6.90	CH = 25"
7W-3		6.00		1D= 7.85	CH & (15"
TWI		5,75		TD= 7.90	CH = 38"
T4-4		6.38		TD=7.80	CH= 36"
10-8		5,56 5,56 5,20		TO = 6.70	CH = 36" CH = 33"
TW-5		5.56		TD = 6,80	CH=33"
141-2		5,20		TO = 6,80	CH= 34"
				ALIPE TO THE STATE OF THE STATE	
				and the state of t	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

Water Sa	ampling R	lecord		Animas Environmental Services					
Monitor W		1w -1		624 E. Comanche, Farmington NM 87401					
					Tel. (505) 564-2281 Fax (505) 324-2022				
Project:	Enterpl			-	Project No.:				
Site: Location:	Smyere	LS # 1		Date: 6-30 -13 Time: 1455					
Sampler:	T11/	4)14		-	We	ather: Hot/Clean	5		
Sampling	Method:	Peristalfic	Peara	- Air	Temper				
Depth of V	Vell (ft):		1	_	ell Diam				
Depth to V	Vater (ft):			Site	Elevation	on (ft):			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(galions)	Notes/Observations		
1500	2),22	6.511	31.5	7.97	761.6	~1.0gallon			
	_								
Analytical	Parameters	Sampled For (i	nclude Met	thod #):					
	803	1 BTEX	9015	1120 /s	<u>GRO</u>				
Disposal of	f Purged Wa	ater:							
		ord Complete?	(Y/N)						
	Laboratory:		(/ / / /						
⊏quipment	Used Durin	g Sampling:							
Other Note	s/Comment	s 36. 9	2260	107	965	45			
			}						
		V							

Water Sa	ampling R	lecord		Animas Environmental Services				
Monitor W	ell No:	TW-2				Comanche, Farmington		
Dueleet					Tel. (505) 564-2281 Fax (505) 324-2022			
Project: Site:	Enter C	orise Lo #	,	-	Project No.:			
Location:		ers Lo #	(-	Date: 6/20/12			
Sampler:	1TL		-	Ma	Time: 1705 eather: Hot/Clast			
Sampling	Darestal for	2 Down	- Δir		ature: 90°F			
Depth of V	Part of the	- rumpe	- / W	/ell Diam	. (in.): 1,25			
Depth to W					Elevation			
	Temp	Conductivity	DO		ORP PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations	
1710	23,09	7,333	49,7	7.48	وريدني-	~ 1.0 gallon		
Analytical F	Parameters	Sampled For (i	nclude Met	thod #):				
Diameter 1	n							
	Purged Wa		()/()1)		1,0,0	111		
		ord Complete?	(T/N)					
Analytical L		g Sampling:						
darbinett	OSCG DUIIII	g Jamping.						
Other Notes	s/Comments	2						
Canon Hotes	, Johnnents							
760-2	3/	9200	117 4.	ceun				
,,,,,	001	1 10010	1200 18					

Water Sa	ampling R	ecord	-	Animas Environmental Services						
Monitor W	ell No:	TW-3				Comanche, Farmington				
Projects		,			Tel. (505) 564-2281 Fax (505) 324-2022					
Project: Site:	SMARIS	15 # I		Project No.: Date: 6 - 30 - /3						
Location:				-	Time: /403					
Sampler:	NW		_	Weather: Hot Clas.						
Sampling	Perishaltu	lump		Air Temperature: <u>969</u>						
Depth of W	7.85			/ell Diam Elevation						
Depth to Water (ft): Temp Conductivity DO				Site	ORP	PURGED VOLUME	<u> </u>			
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations			
1410	24.75	7.684	4.39	7,98	 	1991.				
		, , , , , , , , , , , , , , , , , , , ,								
Analytical F	Parameters	Sampled For (in	nclude Met	thod #):						
Disposal of	Purged Wa	ter:			, ,,					
Chain of Cu	ıstody Reco	ord Complete? (Y/N)	· · · · · · · · · · · · · · · · · · ·						
Analytical L	_aboratory:									
Equipment	Used Durin	g Sampling:								
Other Notes	s/Comments	36,92	289	107	965	3.b				
		-1	,							
						MARKET AND				

Water S	ampling R	ecord		Animas Environmental Services						
Monitor W	/ell No:	T10-4			624 E. C	Comanche, Farmington	NM 87401			
						5) 564-2281 Fax (505)	324-2022			
Project:	Enterp	rige		-	Project No.:					
Site:	SMY8.	s 45 #1		-		Date: 6-20-13 Time: /508				
Location: Sampler:	TJL/I	W112		-	Wo					
	Sampling Method: Penshith Pary					Weather: Hot/Clear Air Temperature: To 6				
Depth of V	1,00	*		ell Diam						
Depth to V	Vater (ft):			Site	Elevation	on (ft):				
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(gallons)	Notes/Observations			
1512	21.09	7,086	76.9	7,30	143.7					
						-				
Analytical	Parameters	Sampled For (i	nclude Met	thod #):						
		Ban BIFY	8015	() Ko/G	20					
			, , , , , , , , , , , , , , , , , , , ,							
		4,4								
Disposal o	f Purged Wa	ater:								
-		ord Complete?	(Y/N)							
	Laboratory:		1,							
		g Sampling:				×				
darbingu	Joed Durin	ig camping.								
Other Note	s/Comment	s								
					279	107,96541				
	<u> </u>	June My		<u>~. 10.</u>)	1-11(0)				
							\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-			

Water Sa	ecord		Animas Environmental Services					
Monitor W	ell No:	TWK	pane:			Comanche, Farmington		
					Tel. (505) 564-2281 Fax (505) 324-2022			
Project:	Entell	Tirse Servers		_	Project No.:			
Site:	Servers	L5 #1	_		Date: 6/20/12			
Location:				-		Time: 1436		
Sampler:	NW	/JL				eather: Hot /Clear	sk _i	
Sampling I		Parastalli	2 Yump	- Aii	Tempe			
Depth of W				_	/ell Diam	* * * * * * * * * * * * * * * * * * *		
Depth to W	/ater (π):	T	i	Site	Elevation	 	<u> </u>	
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(gallons)	Notes/Observations	
1640	25.62	6.329	3.37	7,49	-94.3	I gal.		
						•		
					 			
				ļ				
						the state of the s		
		<u>-</u>						
							:	
		o						
Analytical I	arameters	Sampled For (i	nclude Me	tnod #):				
			·					
D:								
Disposal of		· · · · · · · · · · · · · · · · · · ·		<u>.</u>	 			
Chain of Cu	ustody Reco	ord Complete?	(Y/N)					
Analytical L	aboratory:						,	
Equipment	Used Durin	g Sampling:						
Othor N-4-	n/Co							
Other Notes	Somment	<u> </u>						
700-S	360	12303,107	9653	Ĝ.				
		1	and the second s					
					··-			

Water Sa	mpling R	ecord		Animas Environmental Services				
Monitor W	ell No:	T14 1			624 E. 0	Comanche, Farmington	NM 87401	
		TW-6				5) 564-2281 Fax (505)	324-2022	
Project:	I U fee	LS # 1		_	Project No.:			
Site:	Smyor	LS # 1		-	Date: 6-30-/2 Time: 1320			
Location:	Sampler: Tol/NW					Time: 1320	~	
Sampling I		Peristallic	Puno	Weather: Hot/Clear Air Temperature: 96°				
Depth of Well (ft): 6.85					/ell Diam	n. (in.):		
Depth to Water (ft):					Elevation			
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations	
1325	20.42	7,416	36.8	7.26	-489	21,0 gallon		
						/		
						110		
Analytical I		Sampled For (i						
	8021B	7EX 80	IS DR	OJGRI)			
		, -		/				
Disposal of	Purged Wa	ater:						
Chain of Cu	ustody Reco	ord Complete?	(Y/N)					
Analytical L	_aboratory:							
Equipment	Used Durin	ng Sampling:						
Other Notes	s/Comment	s 36.9a	323 10	07.96	599			
)					

Water Sa	ampling R	ecord		Animas Environmental Services				
Monitor W	ell No:	TW-7		624 E. Comanche, Farmington NM 87401				
		!			Tel. (505) 564-2281 Fax (505) 324-2022			
Project:	Enter	prise		Project No.:				
Site:	<u>Smyer</u>	3 LS#1		-	Date: 6-20-18			
Sampler: 731 NW				=	Wo	Time: 1333 ather: 14pt 1Clear		
Sampler: TOLINU Sampling Method: Peristal fix Parp				_ Δir	Temper			
Depth of Well (ft):			-	ell Diam				
Depth to Water (ft):				-	Elevation			
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(gallons)	Notes/Observations	
1340	21.4	8,430	43.2	7.48	- JH18	~1,0 gallon		
·								
Analytical I	Parameters	Sampled For (i	nclude Me	thod #):				
<u> </u>		31 B7E Y			1080			
	Ç, C	010/0)	ind	771			
<u>, , , , , , , , , , , , , , , , , , , </u>								
n								
	f Purged Wa							
		ord Complete?	(Y/N)					
Analytical l	_aboratory:							
Equipment	Used Durin	g Sampling:						
Other Notes	s/Comment	S						
56 mh	les aic	Fézzy.						
1 John 1	10 Dlac		S Ora	10 6 KW.				
1/142350	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	er when the		- · · · · · · · · · · · · · · · · · · ·	C-14,	-		
	210	1901 10	7 010	1				
	36, 92301, 107.965.26							

Water S	ampling R	ecord		Animas Environmental Services							
Monitor Well No: TW-8				624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022							
Project: Enterprise Site: Someters L5-1 Location: Sampler: DU/NW Sampling Method: Peristatic fung				Project No.: Date: $6 \sim 30 \sim 13$ Time: 16.13 Weather: $Hot C \propto C$ Air Temperature: 90^{-6}							
Depth of Well (ft): Depth to Water (ft):					Well Diam. (in.):Site Elevation (ft):						
Boptii to t	Temp	Conductivity	DO		ORP	PURGED VOLUME					
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations				
1620	24.35	8.276	1.82	6,92	-354.3	I gal.					
			-			<u> </u>					
4000				<u> </u>	·····a						
Analytical	Parameters	Sampled For (in	nclude Me	thod #):							
Analytical Parameters Sampled For (include Method #):											
Disposal o	f Purged Wa	iter:									
Chain of Co	ustody Reco	ord Complete?	(Y/N)			ALL ALL THE STATE OF THE STATE					
Analytical Laboratory:											
Equipment	Used Durin	g Sampling:									
Other Notes/Comments											
36.92309 107.96522											
						-					

Water Sampling Record Monitor Well No:					Animas Environmental Services					
					624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022					
Project: Site: Location:	SW Say	rilling 125 #1		-	Proje	ct No.: Date: 6/20/12 Time: 12 50				
Sampler: NW TL Sampling Method: Paramile Pump Depth of Well (ft): Depth to Water (ft):					Weather: Sunny Air Temperature: 90°F' Well Diam. (in.): 1.25° Site Elevation (ft):					
Time	Temp (deg C)	Conductivity	DO (mg/L)	рН	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations			
1255	26,4	7,105	6.53	7,39	58.1	(ganono)	Supplies Colocid			
		Sampled For (i		thod #):						
8031) DILY	805 DRO	JGKU_							
	F Purged Wa	ater: ord Complete?	(V/NI)							
	_aboratory:	ord Complete:	(1/14)							
		g Sampling:								
	s/Comment		311, 10	7.96	5.28					
	· · · · · · · · · · · · · · · · · · ·									