### 3R - 449

**2010 GWMR** 

05 / 07 / 2010

### Animas Environmental Services, LLC

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

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283 WAY 11 P 1:50

May 7, 2010

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

RE: Williams Four Corners, LLC, Sammons #2 Pipeline Groundwater Investigation Report

Dear Mr. von Gonten:

On behalf of Williams Four Corners, LLC, Animas Environmental Services, LLC (AES) is pleased to submit one copy of the Site Investigation Report for the Sammons #2 pipeline spill located in Flora Vista, New Mexico.

A copy of the report has also been submitted to Mr. Brandon Powell of the New Mexico Oil Conservation Division in Aztec, New Mexico and Mr. Nick Clark, private property owner.

If you have any questions regarding AES' qualifications or the contents of the report, please do not hesitate to contact Ross Kennemer or Tami Ross at (505) 564-2281.

Sincerely,

Tami C. Ross, CHMM

**Project Manager** 

Enclosure:

Site Investigation Report

Cc:

Mr. Brandon Powell

New Mexico Oil Conservation Division

1000 Rio Brazos Road Aztec, New Mexico 87410



### Animas Environmental Services, LLC

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Prepared for:

Mr. Brandon Powell New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

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

Site Investigation Report
Williams Four Corners, LLC
Sammons #2 Pipeline
December 2009 Release
SE1/4 NE1/4 Section 32, T30N, R12W
Flora Vista, San Juan County,
New Mexico

May 5, 2010

Prepared on behalf of: Williams Four Corners, LLC 188 CR 4900 Bloomfield, NM 87413

Prepared by: Animas Environmental Services, LLC 624 E. Comanche

Farmington, New Mexico 87401



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### 1.0 Introduction

Animas Environmental Services, LLC (AES), on behalf of Williams Four Corners, LLC, has prepared this Groundwater Investigation Report for Williams' Sammons #2 oil spill, which was discovered on December 3, 2009.

Site investigation work was completed in accordance with a workplan prepared by AES and dated January 25, 2010. The workplan was submitted to the New Mexico Oil Conservation Division (NMOCD) for review prior to implementing the proposed scope of work.

### 2.0 Site Information

### 2.1 Site Location

The general project area is located in a rural area approximately 0.1 mile east of County Road 3000 on private property owned by Ms. Helen Clark. The spill location is located approximately 140 feet southeast of a wetland area that is adjacent to the Animas River. The project area is described legally as being located within the SE¼ NE¼ Section 32, T30N, R12W in San Juan County, New Mexico. Longitude and latitude were recorded as being N36°46′18.240″ and W108°06′54.540″. A topographic site location map is included as Figure 1, and a Site Vicinity Map is presented as Figure 2.

### 2.2 Spill History

On December 3, 2009, trenching operations during routine pipeline replacement activities uncovered petroleum hydrocarbon contaminated soils. Williams was in the process of replacing an in-service 2-inch diameter natural gas pipeline with a new 4-inch diameter natural gas pipeline. The pipeline connects the Sammons 2 well locations, which are owned by Conoco Phillips. The volume of natural gas condensate released into the surrounding environment and the length of time that the 2-inch diameter pipeline was leaking are unknown.

The NMOCD was notified of the discovered release by Williams on December 3, 2009, and Mr. Brandon Powell of NMOCD visited the site that afternoon. A verbal workplan was agreed upon by Williams and NMOCD to excavate the source area, since it was evident that groundwater had been impacted. Average depth to groundwater at the site is approximately 2 feet below ground surface (bgs).

Initial remedial activities were completed between December 7 and 17, 2009, and included excavation of approximately 1,884 cubic yards of petroleum contaminated soil (PCS) and removal of 1,122 barrels (bbls) of petroleum contaminated groundwater. Petroleum

contaminated soil and groundwater were transported to Industrial Ecosystems, Inc. (IEI) on Crouch Mesa, San Juan County, for disposal.

### 3.0 Geology and Hydrogeology

### 3.1 Geology

San Juan County, New Mexico, is located in the San Juan Basin, which is a large, structural depression encompassing approximately 22,000 square miles and contains deep Tertiary fill resting on rocks of Late Cretaceous age. The lithology consists primarily of the Mesa Verde Formation, composed primarily of sandstones. The topography is broad and mostly flat, surrounded by mountains and deep canyons. Major rivers carved deep canyons and mesas, and physical erosion from wind and water chipped and polished the exposed rocks in the canyons.

The local site geology consists of Animas River alluvium, including clay to coarse sands, from the surface to approximately 3.5 feet bgs. River cobbles were encountered at approximately 3.5 feet bgs.

### 3.2 Hydrogeology

The Sammons #2 Pipeline is within the Animas River flood plain and located approximately 140 feet southeast of a wetland area south of and adjacent to the Animas River. Based on measurements from the excavation area, groundwater underlying the spill site is approximately 2 feet bgs.

### 3.3 Sensitive Receptors

The project area is located in a rural area south of the Animas River, but the general area is still within the more densely populated areas of San Juan County (i.e. Farmington, Aztec, and Bloomfield). There are no known schools, day care centers, nursing homes or senior centers within the immediate vicinity.

### 4.0 Site Investigation – February and March 2009

On March 30, 2010, site investigation activities were conducted by AES in order to delineate the full extent of petroleum hydrocarbon impact on surface and subsurface soils and groundwater resulting from the spill. The investigation procedures included the installation of six monitor wells and collection of soil and groundwater samples. Work was completed in accordance with the workplan prepared by AES and dated January 25, 2010, and also 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.

### 4.1 Permits and Access Agreements

Prior to initiating the fieldwork, AES obtained a verbal property access agreement from Mr. Nick Clark, the private property owner representative.

### 4.2 Utilities Notification

AES utilized the New Mexico One-Call system to identify and mark all underground utilities at the site before initiating drilling activities.

### 4.3 Notification

AES notified Aaron Dailey of Williams, Glen von Gonten of NMOCD, and Nick Clark via telephone before starting field activities.

### 4.4 Health and Safety Plan

Prior to the start of the site investigation activities, AES prepared and implemented a comprehensive site-specific Health and Safety Plan (HASP) addressing the site investigation activities and associated soil and groundwater sampling. All employees and subcontractors were required to read and sign the HASP to acknowledge their understanding of the information contained within the HASP. The HASP was implemented and enforced on site by the assigned Site Safety and Health Officer. Daily tailgate meetings were held and documented during field activities, and meetings addressed site-specific health and safety concerns or issues.

### 4.5 Installation and Sampling of Soil Borings

On March 30, 2010, AES installed six monitor wells at and in the vicinity of the previous excavation in order to define the lateral and vertical extent of near surface and subsurface soil contamination. All monitor wells (MW-1 through MW-6) were installed with a GeoProbe DT 6620 track-mounted direct push rig. Wells MW-1 through MW-5 were set at a total depth of 6 feet bgs, and MW-6 was set at a total depth of 7 feet bgs. The locations of soil borings/monitor wells are presented on Figure 3.

### 4.5.1 Drilling Methods

Soil borings MW-1 through MW-6 were advanced with a GeoProbe DT 6620 track-mounted direct push rig subcontracted through Earth Worx, Los Lunas, New Mexico.

### 4.5.2 Soil Sample Collection

Soil samples were collected from continuously driven core-barrel samplers during advancement of the soil borings. One soil sample was collected from the core barrel sampler and transferred to appropriately labeled sample containers. The sample was split

for field screening of volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM) and laboratory analysis. The soil samples were collected from the capillary fringe just above groundwater level. Soil sample collection was completed in strict accordance with AES SOPs.

For each soil boring, a Soil Boring Log was completed. These logs recorded sample identification, depth collected, and method of collection, as well as observations of soil moisture, color, grain size, contaminant presence, and overall stratigraphy.

### 4.5.3 Field Screening

Samples were collected at approximately 2 feet bgs from each soil sampling location and field screened for volatile organic vapors utilizing a PID-OVM calibrated with isobutylene gas to obtain preliminary data regarding potential petroleum hydrocarbon-impacted soil.

Once collected, the soil samples to be field screened were immediately placed in a clean one-gallon Ziploc bag and allowed to warm up to approximately 80°F. Approximately 10 minutes were allowed for the soil to be heated and for any VOCs in the soil to accumulate in the headspace of the Ziploc bag. During the initial stages of headspace development, the sample was gently shaken for one minute to promote vapor development and disaggregate the sample. Volatile gases were then measured by carefully opening the Ziploc bag and inserting the sample probe of the PID-OVM. The highest (peak) measurements were recorded onto the Soil Boring Logs. All field screening was completed in accordance with the previously approved workplan and AES SOPs.

### 4.5.4 Laboratory Analyses - Soil

Soil samples collected from borings were submitted to an EPA-approved laboratory, Hall, Albuquerque, New Mexico, for laboratory analysis of the following parameters:

- Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) EPA Method 8021
- Total Petroleum Hydrocarbons (TPH) (C<sub>6</sub>-C<sub>36</sub>) Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and Motor Oil Range Organics (MRO) — EPA Method 8015 Modified

Once collected, soil samples were preserved in laboratory-supplied containers and stored in an insulated cooler containing ice. Samples were shipped in insulated coolers containing ice at less than 6°C via Greyhound bus to the analyzing laboratory. For all laboratory samples, quality assurance and quality control (QA/QC) procedures, sample preservation, apparatus required, and analyses performed were in accordance with USEPA Document EPA-600, "Methods for Chemical Analysis for Water and Wastes" dated July 1982; and USEPA document SW-846, 3rd Edition, "Test Methods for Evaluating Solid Waste: Physical Chemical Methods", dated November 1986.

### 4.6 Groundwater Monitor Well Installation

### 4.6.1 Groundwater Monitor Well Installation and Construction

A total of six monitor wells were installed at the site. Monitor wells were positioned around the excavation area in order to define any horizontal extent of contaminants in groundwater. Groundwater was encountered between approximately 1.5 to 2.0 feet bgs.

Monitor well construction consisted of 1.4-inch outside diameter (OD) Schedule 40 PVC screen and 1-inch blank riser casing. The screened interval extended 5 feet across the water table. The wells were constructed of a 1.4-inch OD pre-packed screen (0.010-inch slot.) The screen was factory packed with 20/40 Colorado silica sand. A bentonite seal was placed above the sand pack, and concrete grout with approximately 5 percent bentonite was poured from the top of the bentonite plug to approximately 0.5 feet of ground surface. An above grade locking steel protective casing, enclosed with a shroud of concrete, was installed on the well to prevent unauthorized access and damage. Monitor well locations are included as Figure 3. Monitor well construction diagrams for MW-1 through MW-6 are included on the soil boring logs in Appendix A.

### 4.6.2 Groundwater Monitor Well Development

Following monitor well installation and completion, each well was developed in order to remove fine-grained sediments from the sand pack and to increase hydraulic conductivity through the well screen. Each well was developed by a combination of surging and pumping techniques. Groundwater purged from the wells was contained in labeled and sealed plastic water tank. Approximately 60 gallons of development water was disposed of at Industrial Ecosystems NMOCD permitted landfarm. Monitor wells were developed in strict accordance with AES SOPs. Details of monitor well development including purged water volume are included on a Groundwater Monitor Well Development Form, which is presented in Appendix B.

### 4.6.3 Monitor Well Survey

The location and elevation of the top of each well casing was surveyed to the nearest 0.01 foot with reference to mean sea level by Arrow Engineering, a New Mexico Licensed Professional Surveyor. Each well was tied to an existing USGS benchmark.

### 4.6.4 Groundwater Monitor Well Monitoring and Sampling

AES personnel completed groundwater monitoring and sampling of the wells on April 20, 2010. Groundwater samples were collected from a total of 6 monitor wells with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms.

Prior to sample collection, water quality measurements were recorded which included depth to groundwater, pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). Samples were shipped in insulated coolers containing ice at less than 6°C via Greyhound bus to Hall, the analyzing laboratory.

### 4.6.5 Laboratory Analyses - Groundwater

All groundwater analytical samples were analyzed for the following parameters:

- BTEX EPA Method 8260
- TPH (C<sub>6</sub>-C<sub>36</sub>) GRO, DRO, and MRO EPA Method 8015 Modified

A field blank was analyzed for BTEX per EPA Method 8260.

- 5.0 Results
- 5.1 Soil

### 5.1.1 Lithology

Soil lithology was observed to consist of sandy clay and silty clays throughout the site. Soils within the excavation backfill consist of coarse sand. Soil boring logs with monitor well construction details are included in Appendix A.

### 5.1.2 Field Results

Soil samples collected from soil borings were field-screened for VOCs with a PID-OVM. OVM readings were at or near background levels for all samples collected from MW-1 through MW-6 and ranged from 0.0 parts per million (ppm) to 7.3 ppm. Details of PID-OVM readings above background levels are as follows:

- MW-1 VOCs 2.4 ppm from 0-4' bgs composite
- MW-2 VOCs 4.2 ppm from 0-4' bgs composite
- MW-3 VOCs 7.3 ppm from 0-4′ bgs composite
- MW-4 VOCs 4.4 ppm from 0-4' bgs composite
- MW-5 VOCs 0.0 ppm from 0-4' bgs composite
- MW-6 VOCs 2.4 ppm from 0-4' bgs composite

PID readings were recorded on the Soil Boring Logs, which are included in Appendix A.

### 5.1.3 Soil Analytical Results

Soil samples were collected from the capillary fringe above the groundwater level.

Remediation action levels promulgated by NMOCD for oil spills and releases (August 13,

1993) were utilized as action levels for soil characterization. The NMOCD remediation action levels for total BTEX are 50 mg/kg and 100 mg/kg for TPH. Soil analytical results showed that soil samples collected from all soil borings were below laboratory detection limits for all contaminants of concern.

The analytical results for the soil samples collected during the site investigation have been tabulated and are presented in Table 1. Soil analytical laboratory reports are presented in Appendix C.

### 5.2 Groundwater

Newly installed monitor wells were developed by AES personnel on April 19, 2010, and groundwater samples from six monitor wells were subsequently collected for laboratory analysis on April 20, 2010.

### 5.2.1 Measurement Data

Following depth to water measurement, each well was purged with a disposable bailer until recorded temperature, pH, conductivity, and dissolved oxygen (DO) measurements were stabilized. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 9.60°C to 11.09°C. Conductivity ranged from 1.670 mS to 4.392 mS. Although DO was recorded during field activities, it should be noted that due to the use of bailers, the accuracy of dissolved oxygen measurements is unknown. Based on groundwater elevation data, the hydraulic gradient was calculated to be approximately 0.01 ft/ft from southeast to northwest. Depth to groundwater measurements and water quality data are summarized in Table 2, and groundwater elevation contours are presented in Figure 4. Water Sample Collection forms are presented in Appendix B.

### 5.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the April 2010 sampling events show benzene concentrations exceeded the New Mexico Water Quality Control Commission (WQCC) standard of 10  $\mu$ g/L in one well, MW-1 (11  $\mu$ g/L). The remaining wells had benzene, toluene, ethylbenzene, and xylene concentrations either below laboratory detection limits or well below applicable WQCC standards.

WQCC standards have not been established for TPH. Diesel and motor oil range organics were below laboratory detection limits for all wells sampled. Low level gasoline range organics were detected in MW-2, MW-4, MW-5, and MW-6. The analytical results for groundwater samples collected during the April 2010 sampling event have been tabulated and are presented in Table 3 and on Figure 5. Groundwater analytical laboratory reports are presented in Appendix C.

### 6.0 Conclusion and Recommendations

A total of six monitor wells were installed by AES March 30, 2010. Soils were found to consist of sand and sandy to silty clays. Groundwater was found to exist at approximately 1.0 to 2.43 feet bgs. Soil samples collected showed reported contaminant concentrations below laboratory detection limits.

Depths to groundwater varied across the site and were observed to exist at about 1.0 to 2.43 feet bgs from the top of the well casing. The groundwater gradient was calculated to be approximately 0.01 ft/ft to the northwest. A baseline groundwater monitoring and sampling event was conducted by AES on April 20, 2010. The groundwater analytical results showed that groundwater is impacted above the WQCC standard for benzene in MW-2.

Based upon the results of the site investigation associated with the Sammon's #2 Pipeline release, the source excavation activities in December 2009 were successful in removing petroleum contaminated soil. Groundwater has been impacted within the source excavation area near MW-2; dissolved phase benzene concentrations are just slightly above the WQCC regulatory standard, at  $11 \, \mu g/L$ .

The lateral extent groundwater contamination appears to have been defined in all directions. AES recommends conducting three more quarters of groundwater monitoring and sampling (for one year total) of all wells in order to monitor the natural attenuation of the dissolved phase groundwater contamination. AES also recommends collecting one confirmation groundwater sample directly from the wetland area adjacent to the spill site.

### 7.0 Certification

I, the undersigned, am personally familiar with the information submitted in this Site Investigation Report, prepared on behalf of Williams Four Corners, LLC for the March 30 and April 20, 2010 site activities associated with the December 2009 Sammons #2 Pipeline release in Flora Vista, San Juan County, New Mexico. I attest that it is true and complete to the best of my knowledge.

Tami C. Ross, CHMM Project Manager

Sami C. Ross

Clizabeth D. MaNdy Elizabeth McNally, P.E.

Principal

### 8.0 References

- Animas Environmental Services, LLC (AES). Groundwater Investigation Workplan for Williams Four Corners, LLC, Sammons #2 Pipeline Spill, January 25, 2010.
- 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.
- USEPA. 1991. Site Characterization for Subsurface Remediation, EPA 625/4-91-026, November, 1991.
- 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.

## TABLE 1 SUMMARY OF SOIL LABORATORY ANALYTICAL RESULTS

# Williams Sammons #2 Pipeline Release Investigation

Flora Vista, San Juan County, New Mexico

Sample ID Sampled   Completed   Completed	penzene	Tolunda	Ethyl-	Verland	GRO	DRO	SAKO	101
		auanioi	benzene	vyiene	(010-90)	(C10-C22)	(C22-C32)	ונטו
Analytical Method           NMOCD Action Level         SB #1         30-Mar-10           SB #2         30-Mar-10           SB #3         30-Mar-10	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Action Level           SB #1         30-Mar-10           SB #2         30-Mar-10           SB #3         30-Mar-10	8021B	80218	8021B	8021B	80158	8015B	8015B	418.1
		50	0					100
	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<20
	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<20
	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<20
<b>SB #4</b> 30-Mar-10	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<20
<b>SB #5</b> 30-Mar-10	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<20
<b>SB #6</b> 30-Mar-10	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<20

Site Investigation Report May 5, 2010

TABLE 2
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
Williams Four Corners #2 Pipeline Release Investigation

Flora Vista, San Juan County, New Mexico

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	Нd	ORP (mV)
MW-1	20-Apr-10	2.43	5427.26	5424.83	10.19	4.392	0.43	7.05	35.1
MW-2	20-Apr-10	1.11	5424.98	5423.87	10.37	1.670	0.20	7.39	-132.7
MW-3	20-Apr-10	1.77	5425.44	5423.67	9.73	2.005	0.24	7.21	0.69-
MW-4	20-Apr-10	1.59	5424.38	5422.79	9.60	2.174	0.22	7.29	-88.4
MW-5	20-Apr-10	1.00	5424.17	5423.17	9.88	3.140	0.21	7.37	-102.6
9-MW	20-Apr-10	1.04	5424.91	5423.87	11.09	2.277	0.22	7.28	-113.6

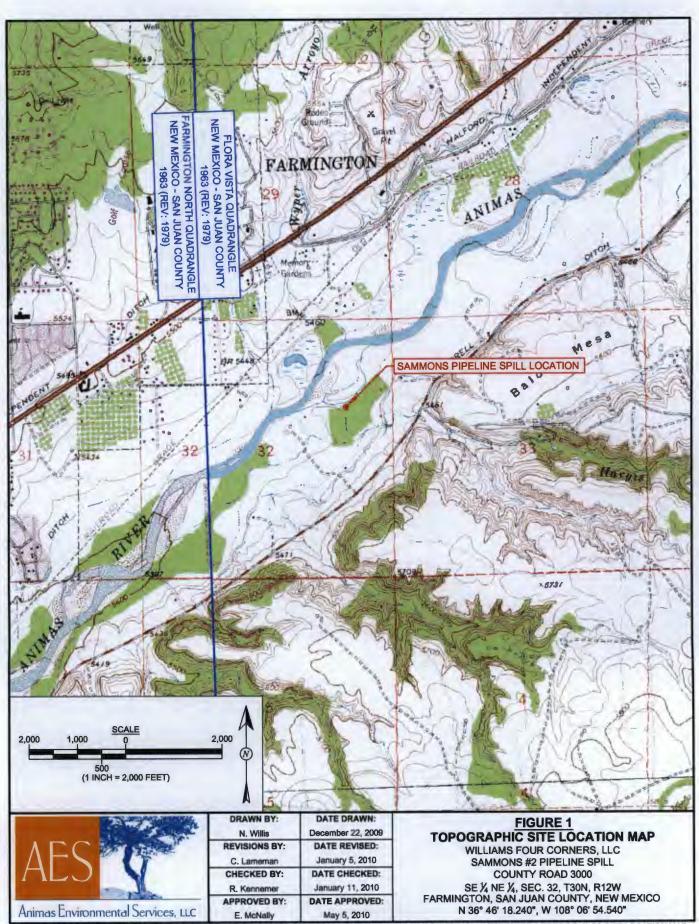
TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Williams Four Corners #2 Pipeline Release Investigation
Flora Vista, San Juan County, New Mexico

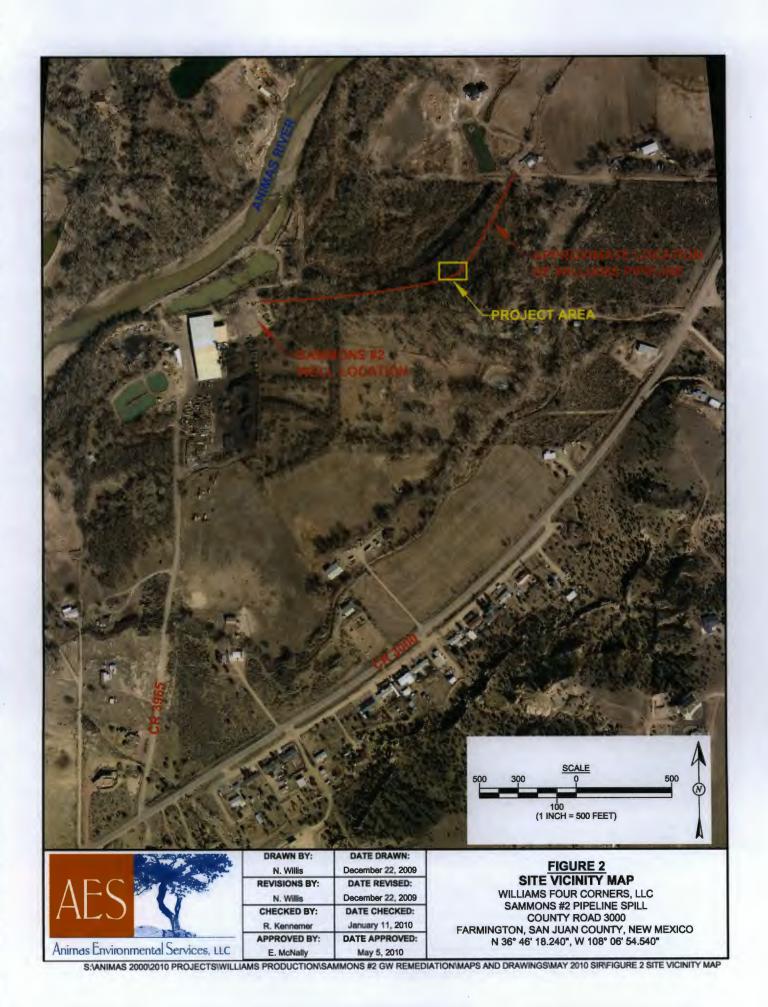
Well ID	Date	Benzene	Toluene	Ethyl-	Total	GRO	DRO	MRO
	Sampled			Benzene	Xylenes	(C6-C10)	(C10-C22)	(C22-C32)
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(mg/L)	(mg/L)
Analytica	l Method	8260B	8260B	8260B	8260B	8015	8015	8015
WQC	C Standard	10	750	750	620	NE	NE	NE
MW-1	20-Apr-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-2	20-Apr-10	11	<1.0	2.4	22	1.1	<1.0	<5.0
MW-3	20-Apr-10	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-4	20-Apr-10	9.9	<1.0	<1.0	<1.5	0.074	<1.0	<5.0
MW-5	20-Apr-10	9.7	<1.0	<1.0	<1.5	0.055	<1.0	<5.0
MW-6	20-Apr-10	4.6	<1.0	11	47	3.2	<1.0	<5.0
Field	20-Apr-10	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
Blank	20-Apr-10	\1.0	\1.0	\1.0	\1.5	11/	I IVA	11/

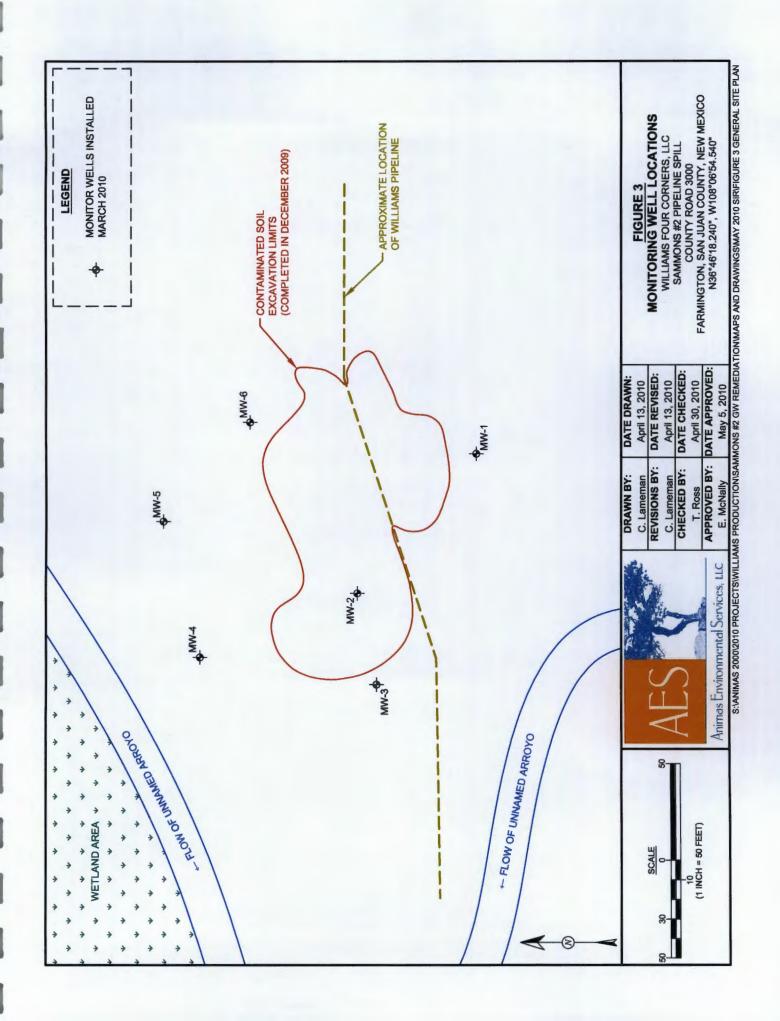
**Notes:** 

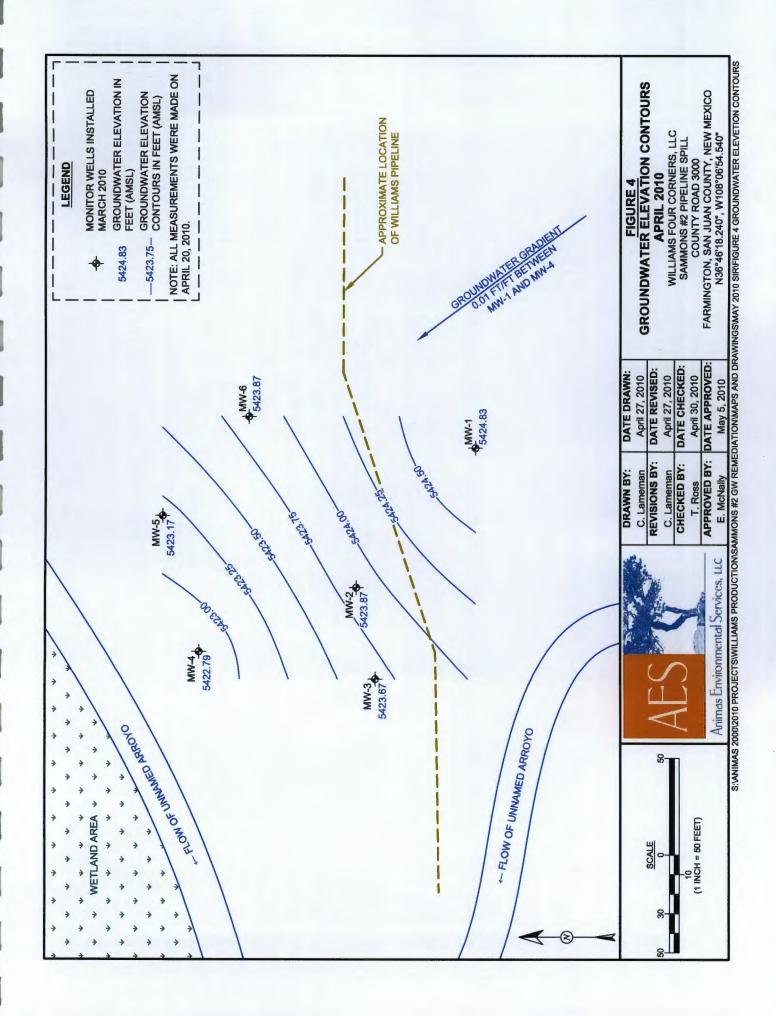
< - Analyte below laboratory detection limit

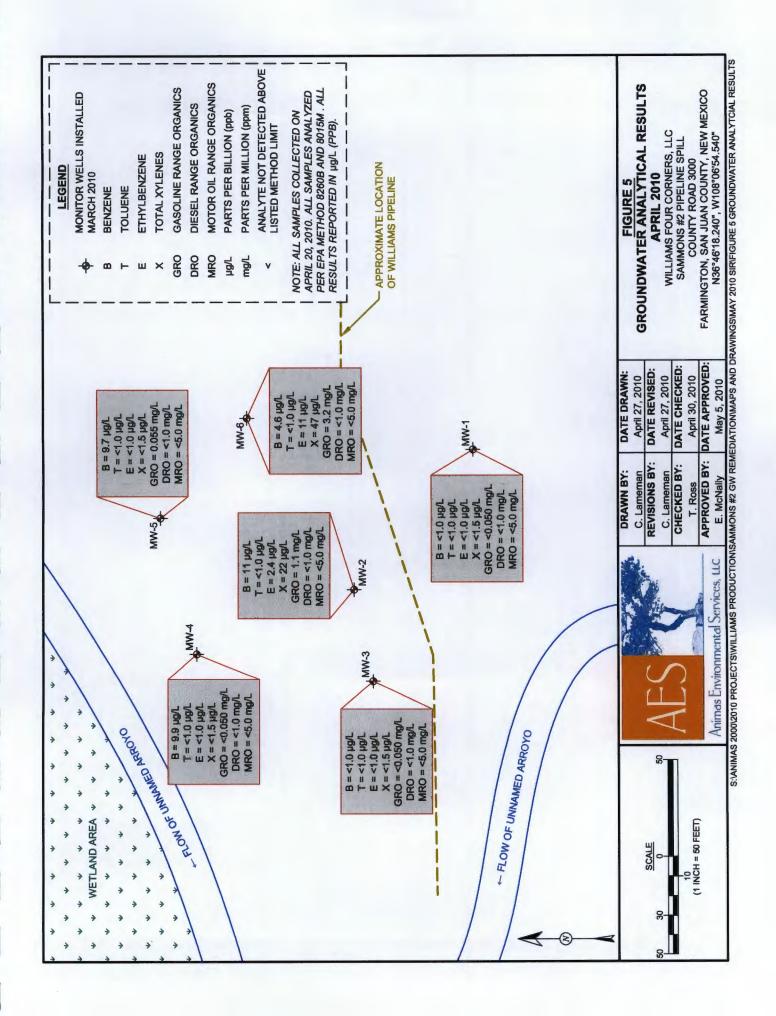
NA - Not Analyzed NE - Not Established

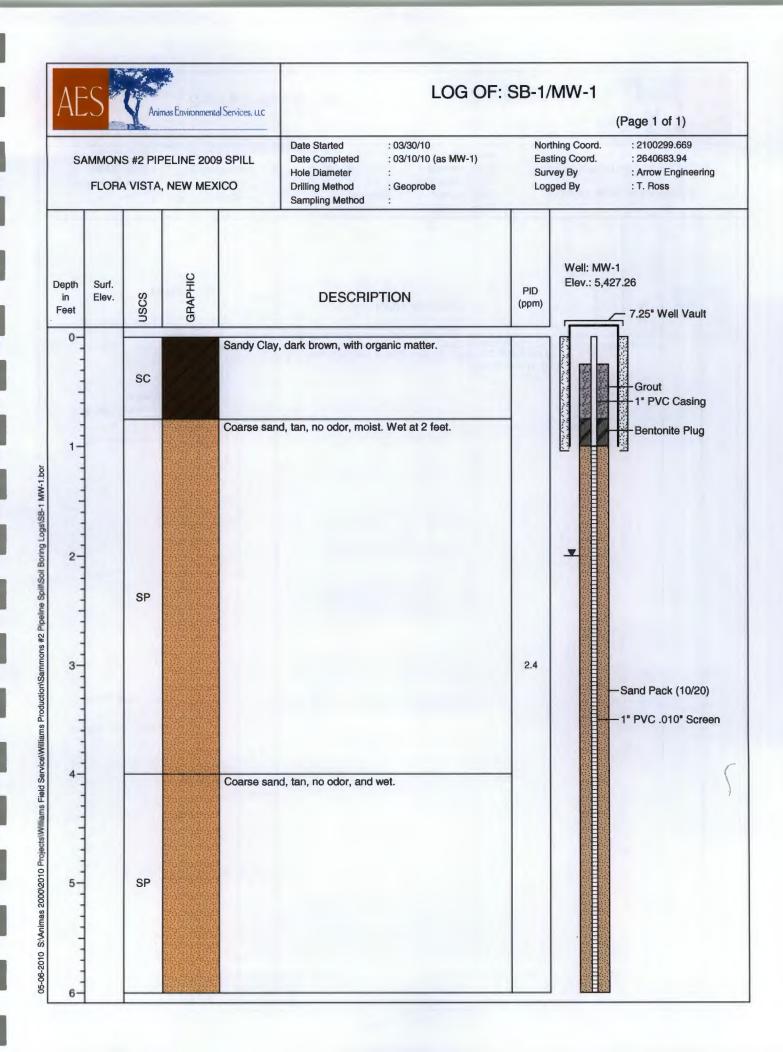


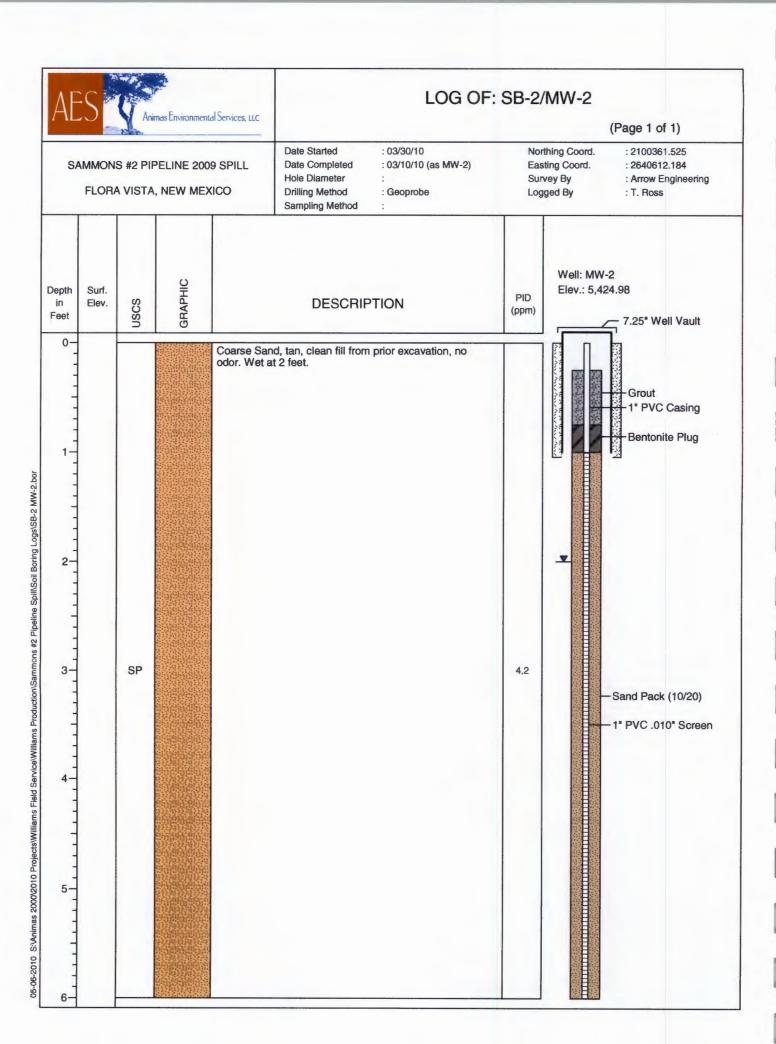


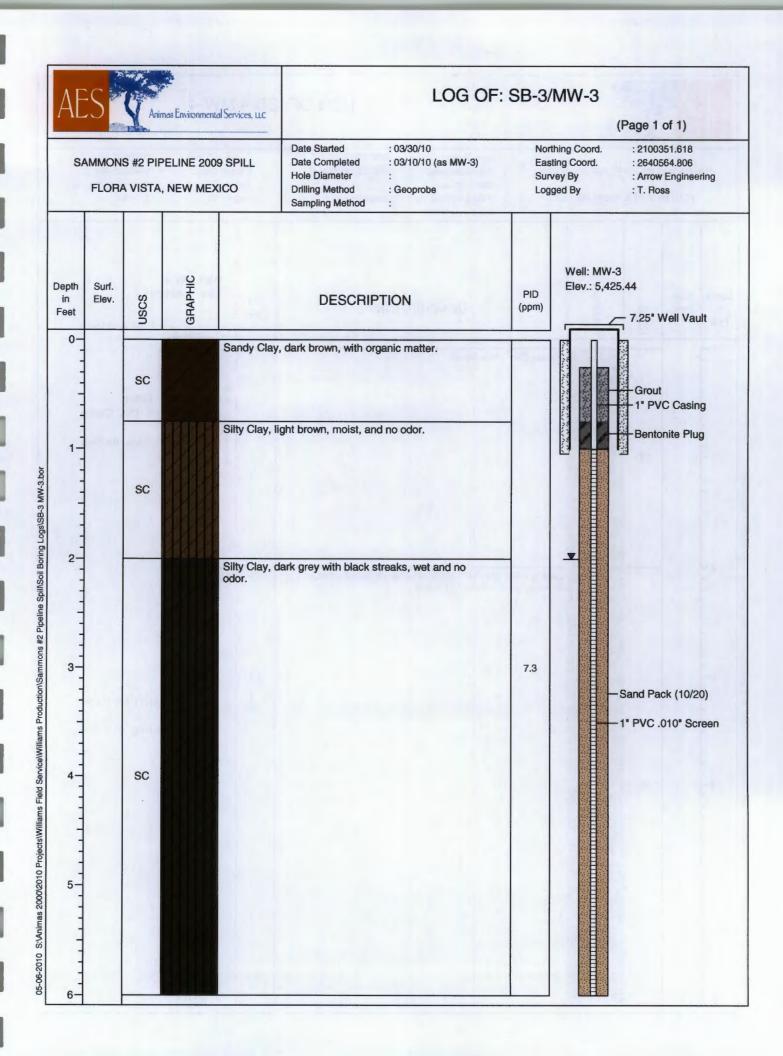


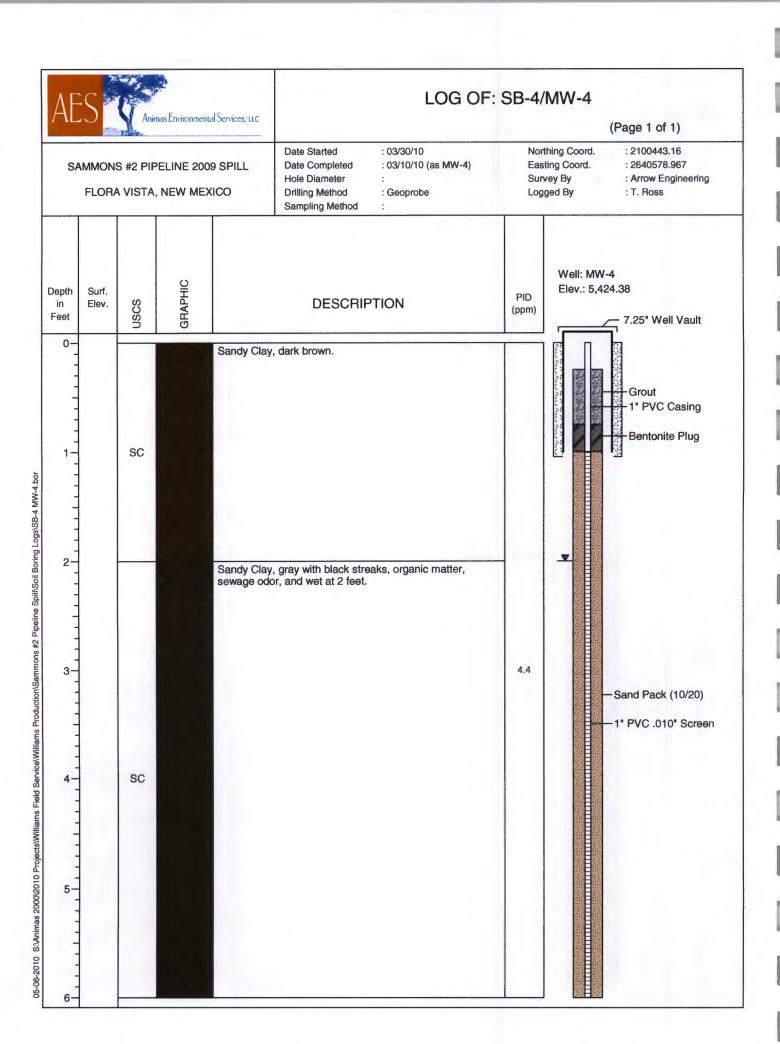


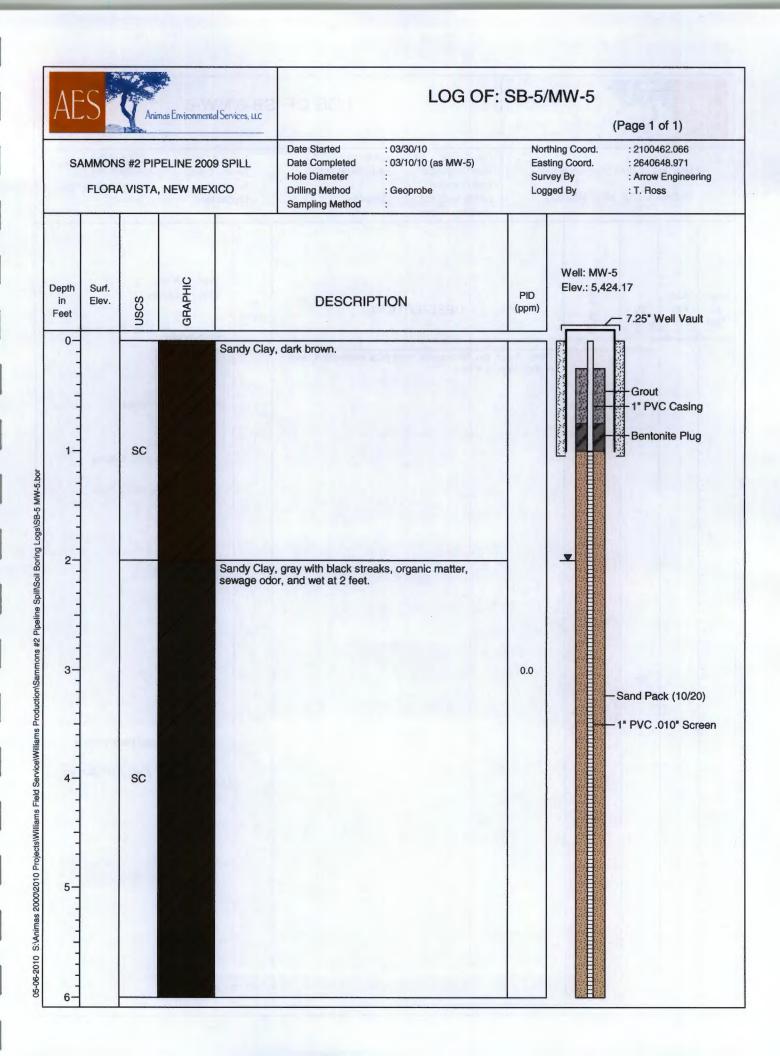


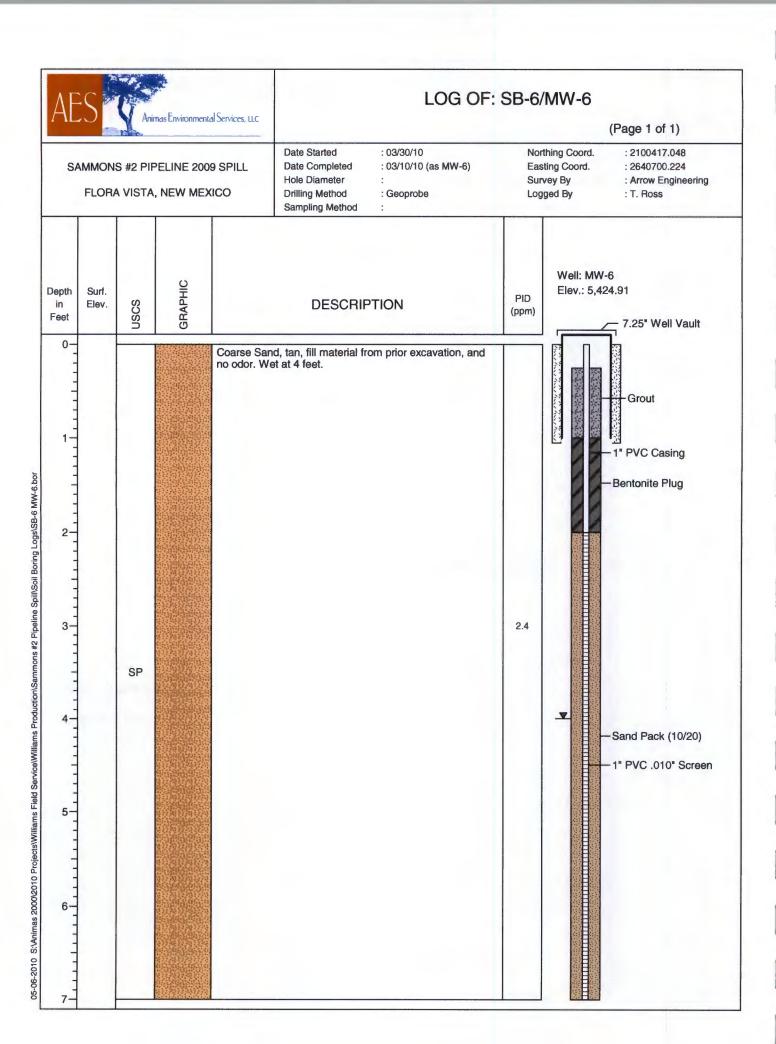












### **Animas Environmental Services GROUNDWATER MONITORING WELL** 624 E. Comanche, Farmington NM 87401 **DEVELOPMENT FORM** Tel. (505) 564-2281 Fax (505) 324-2022 Project: Grandwater Project No.: AES 091204 Monitoring Site: Sammons #Z Pipeline Date: 4-19-10 Location: 3000 CR Time: 0940 Farminaton. New Mexico Tech: Form: 1 of 1 Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) 5 MW-1 2.51 Peristaltic Pump Well Depth to NAPL Depth to Purged Volume Method / Notes / Observations ID (ft.) Water (ft.) (gal.) 1.38 5.25 Peristaltic Pump MW-Z Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) Z.04 Peristaltic Pump MW-3 2.5 Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) 1.72 Peristaltic Pump 2.5 MU-4 Depth to NAPL Well Depth to **Purged Volume** Method / Notes / Observations (ft.) Water (ft.) (gal.) 1.09 Peristaltic Pump MW-5 Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) [2] 3 Peristaltic MW-6 Well Depth to NAPL Depth to **Purged Volume** Method / Notes / Observations ID (ft.) Water (ft.) (gal.) Puged Water Storage, Transport, and Disposal Information:

### DEPTH TO GROUNDWATER MEASUREMENT FORM

### **Animas Environmental Services**

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

Project:	Groundwater Monitoring	Project No.: AES 09120
Site:	Sammons #2 Pipeline Spill	Date: 4-20 - 1/2

Location: CR 3000 Farmington, New Mexico Time: 1050
Tech: いいいにな

	.,	<b>.</b>		,	
Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1126	~-	2.43		
MW-2	1217		1.77	_	
MW-3	1252	_	1.77		
MW-4	1325	_	1.59		
MW-5	1359		1.00		
MW-6	1431		1.04		
				7	
					 70.

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

					Animas Environmental Services			
MONI	TORING WI	ELL SAMPLI	NG REC	ORD	Ar	nimas Environme	intal Services	
Moni	itor Well No:	MW.	-1	-		24 E. Comanche, Farmi Tel. (505) 564-2281 Fax		
Site:	Sammons #2	Pipeline Spill				Project No.: AES 0912		
		mington, New M	lexico		•	Date: 4-20	<del></del>	
		Monitoring and			•	Arrival Time: 1050		
•	Technician:				•	Air Temp: 60°	'F	
Purge	e / No Purge:	Purge				.C. Elev. (ft):		
Well D	Diameter (in):	1			Րotal We	ell Depth (ft): <u>5, °</u>		
	al D.T.W. (ft):		Time:			(taken at initial gauging		
Confirm	m D.T.W. (ft):	2.43	Time:	1126	<del></del>	(taken prior to purging	The state of the s	
	al D.T.W. (ft):		_ Time:		Th	(taken after sample col		
It NA	APL Present:	D.T.P.:	D.T.W	/.:	In	ickness:T	ime:	
	M	Vater Quality	Paramete	rs - Rec	orded D	During Well Purging		
	Temp	Conductivity	DO	!	ORP	PURGED VOLUME		
Time	(deg C)	(ms)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations	
1/33	21.34	4,405	0.63	7.06	32.1	75		
1139	12.08	4.575	0.41	7.05		75		
1143	10.40	4.519	0.34	7.02		75		
1147	10,31		0.43	7.05		75		
1150	10,19	4,392	0.43		35.1	75		
1156							Samples Collocted	
N J V							Services Constitution	
					$\vdash$			
					<del>                                     </del>			
				<del>  </del>				
Analytical Parameters (include analysis method and number and type of sample containers)								
Anaiyti	ical Parame	ters (include a	analysis n	netnoa a	and nun	nber and type of sar	npie containers)	
		BTEX per EP	A Method 8	3260 (3 40	ეmL Vials	s w/ HCl preserve)		
	G	RO & DRO per	EPA Metho	od 8015B	(1 40mL	Vials w/ HCl preserve)		
	G	RO & DRO per	EPA Metho	od 8015B	(40mL V	/ial w/ no preservative)		
	Di	isposal of Purg	ed Water:					
Collec	cted Samples	Stored on Ice	in Cooler:	Yes				
	-	stody Record (	•					
		-	-		ronmenta	al Analysis Laboratory, A	Albuquerque, NM	
Equipm	ent Used Dur	_	•			terface Level, YSI Wate		
_,,,			New Dispo					
Notes/Com	ments:	F	······································					
<u> </u>								

MONI	TORING W	ELL SAMPL	NG REC	ORD	A	nimas Environme	ental Services	
Mon	itor Well No:	MW	-2		6	24 E. Comanche, Farm	ington NM 87401	
						Tel. (505) 564-2281 Fax		
		Pipeline Spill			-	Project No.: AES 091		
		mington, New M Monitoring and			-	Date: <u> </u>	-10	
	Technician:				- '	Air Temp: 60		
	e / No Purge:					.C. Elev. (ft): 💉 🥠 😤		
	Diameter (in):			- -	Total We	ell Depth (ft): 5.5		
	al D.T.W. (ft): m D.T.W. (ft):		Time:	1212	<del></del>	(taken at initial gauging	,	
	m D.T.w. (ft): al D.T.W. (ft):		Time:	1213		taken prior to purging (taken after sample co		
	APL Present:		D.T.W	<i>1</i> .:	Th	ickness:T		
	V	Vater Quality	Paramete	rs - Rec	orded [	Ouring Well Purging		
	Temp	Conductivity	DO	T	ORP	PURGED VOLUME		
Time	(deg C)	(#8) (ms)	(mg/L)	рH	(mV)	(see reverse for ealc.)	Notes/Observations	
1220	13,16	1.743	0.37	7.35	-138.1	75		
1224	11.17	1.668	0.14	7,38	1	75		
1228	10.27	1.661	0.21	7.40	-130.4			
1231	10.10	1.656	0.17		-134. 7	7-5		
1234	10.37	1.670	0.20	7.39	-132.7	75		
1239			0.00				Samples Collected	
1021			_				Supples Collected	
Analytical Parameters (include analysis method and number and type of sample containers)								
						s w/ HCl preserve)		
	G					Vials w/ HCl preserve)		
					`	ial w/ no preservative)		
		sposal of Purg						
Collec		Stored on Ice	•	Yes				
	•	stody Record (	-	Yes				
		•	-		ronmenta	al Analysis Laboratory, A	Albuquerque, NM	
Equipm	ent Used Dur	•				erface Level, YSI Water		
			New Dispo					
Notes/Com	ments: 入	time	of C	collecti	ion f	Manda fiel	d blonks	
	one.					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	
· w								

MONI	TORING W	ELL SAMPLI	NG REC	ORD	Ar	nimas Environme	ental Services						
Mon	itor Well No:	MW	-3	-		24 E. Comanche, Farm Tel. (505) 564-2281 Fax	•						
0:1	0	0.0											
		Pipeline Spill			_	Project No.: AES 0912							
		mington, New M			- ,	Date: 4-20							
		Monitoring and			- '	Arrival Time: 125							
	Technician:					Air Temp: 65							
_	e / No Purge:		<u>e</u>			.C. Elev. (ft):							
	Diameter (in):		Time:	_	i otai vve	ell Depth (ft): 5,9							
	al D.T.W. (ft):		Time:		=-	(taken at initial gauging	•						
	m D.T.W. (ft): al D.T.W. (ft):		Time:	16:	5Z	(taken prior to purging	-						
	APL Present:		D.T.W	<i>.</i>	Th	(taken after sample colickness:T	imo:						
							me						
		1	<del></del>	rs - Rec		Ouring Well Purging							
	Temp	Conductivity	DO		ORP	PURGED VOLUME							
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations						
1255	11.14	2.270	0.30	7.23	-63.3	75							
1258	10.79	2.320	0.49	7.21	-50.5	75							
1301	11.06	2.373	0.42	7.18	-46.0	75							
1304	9.92			7.21		75							
		2.110	0,22	1	-66.4								
1308	9.73	2.005	0.24	7.21	-69.0	75							
1313							Samples Colleted						
							•						
l													
Analyti	ical Paramet	ters (include a	analysis r	nethod	and nun	nber and type of sar	nple containers)						
		BTEX per EP.	A Method 8	3260 (3 4	mL Vials	s w/ HCl preserve)							
	G	RO & DRO per l	EPA Metho	d 8015B	(1 40mL	Vials w/ HCl preserve)							
	G	RO & DRO per	EPA Metho	od 8015B	(40mL V	ial w/ no preservative)							
	Di	sposal of Purg	ed Water:										
Collec	ted Samples	Stored on Ice i	in Cooler:	Yes									
	Chain of Cu	stody Record (	complete:	Yes									
		-	•		ronmenta	al Analysis Laboratory, A	Albuquerque, NM						
Equipme	ent Used Dur	-	٠.			erface Level, YSI Water							
_4		- · ·	New Dispo			onace zeros, ren mate	guanty moto.						
Notes/Com	ments:												
			•										
	<del></del>												

MONI	TORING W	ELL SAMPL	NG REC	ORD	A	nimas Environme	ental Services		
	itor Well No:	MW		•		324 E. Comanche, Farm			
IVIOII	itoi weli ivo.			-	1	Tel. (505) 564-2281 Fax	_		
		Pipeline Spill			_	Project No.: AES 091	204		
		mington, New M			- -	Date: 4-26			
•	Groundwater Technician:	Monitoring and			- '	Arrival Time: 1322			
	e / No Purge:				- то	Air Temp: 70 C. Elev. (ft):	<u>//                                   </u>		
_	Diameter (in):					ell Depth (ft): 5, 5			
	al D.T.W. (ft):		Time:			(taken at initial gauging			
	m D.T.W. (ft):		Time:	37	25	(taken prior to purging	•		
	al D.T.W. (ft): APL Present:		Time:	<del> </del>	Th	(taken after sample co			
IT NA						ickness: T	ime:		
	V	Vater Quality	Paramete	rs - Rec	orded [	During Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for cale.)	Notes/Observations		
1330	12,30	2.204	0.17	7.24	-68.4	75			
1333	10.71	2.248	0.21	7.26	<b>43,3</b>	75			
1337	10,09	2.237	0.24	7.31	-74.2	75			
1340	9.67	2.213	0.26		-72.8				
1343	9.60	2.174	0.22	7.29	-88.4				
134 🕦							Samples Collected		
10 10							sorpies Confector		
							7-1-111-1		
Analyti	cal Paramet	ters (include a	analysis n	nethod a	and nur	nber and type of sar	nple containers)		
		BTEX per EP	A Method 8	3260 (3 40	mL Vials	s w/ HCl preserve)			
	G	RO & DRO per	EPA Metho	d 8015B	(1 40mL	Vials w/ HCl preserve)			
	G	RO & DRO per	EPA Metho	d 8015B	(40mL V	ial w/ no preservative)			
	Di	sposal of Purg	ed Water:						
Collec	ted Samples	Stored on Ice	in Cooler:	Yes					
	Chain of Cu	stody Record (	Complete:	Yes					
		Analytical La	boratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipme	ent Used Dur	ing Sampling:	- Keck Wate	r Level or	Keck Int	erface Level, YSI Water	Quality Meter		
		and	New Dispo	sable Bai	ler				
Notes/Com	ments:								

MONI	TORING W	ELL SAMPLI	NG REC	ORD	I A	nimas Environme	ental Services		
l	itor Well No:	2014		VI		624 E. Comanche, Farmi			
				•	7	Tel. (505) 564-2281 Fax	x (505) 324-2022		
	Sammons #2					Project No.: AES 0912			
		rmington, New M r Monitoring and			-	Date: $\frac{\mathcal{H}-ZO}{135}$			
•	g Technician:				- 1	Arrival Time: 755 Air Temp: 70°			
	je / No Purge:				<b>T.</b> O	O.C. Elev. (ft): 7			
Well D	Diameter (in):	1		-		ell Depth (ft): <u> </u>	A		
1	al D.T.W. (ft):		_ Time:			_(taken at initial gauging	•		
	m D.T.W. (ft): al D.T.W. (ft):		Time:	135	9	_(taken prior to purging (taken after sample col	•		
	APL Present:		Time: D.T.W	v.:	Th	<b>-</b> ·	rime:		
						During Well Purging			
	Temp	Conductivity			ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(se <u>e reverse for ea</u> lc.)	Notes/Observations		
14102	11.07	3, [6]	0.76	7.27		75			
1405	10,28	3,177	0.24	7.31	-89.8				
1408	9,95	3,173	0.22			75			
1411	10.09	3.166	0.20		-100.7	76			
14 14	9,88	3.140	0.21		-102.6	75			
1419	1,00	3.110	U	Tivi	100.0	12	< 1 1 1 J		
1-1 -							Samples Collected		
			<b></b>				<del></del>		
Analyti	ical Paramet	ters (include a	analysis n	nethod a	and nun	mber and type of san	nple containers)		
		BTEX per EP	A Method 8	3260 (3 40	JmL Vials	s w/ HCl preserve)			
	G'	RO & DRO per	EPA Metho	d 8015B	(1 40mL	Vials w/ HCl preserve)			
	G	RO & DRO per	EPA Metho	od 8015B	(40mL V	/ial w/ no preservative)			
	Di	isposal of Purg	ed Water:						
Collec	ted Samples	Stored on Ice i	in Cooler:	Yes					
	Chain of Cu	stody Record C	Complete:	Yes					
		Analytical La	boratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipme	ent Used Dur	_				terface Level, YSI Water			
			New Dispos						
Notes/Com	ments:								
	A-7								

MONI	TORING W	ELL SAMPLI	ING REC	Aı	Animas Environmental Services				
Mon	itor Well No:	MW-	-6		1	624 E. Comanche, Farm	•		
				_	7	Tel. (505) 564-2281 Fax	x (505) 324-2022		
	Sammons #2					Project No.: AES 0912			
		rmington, New M r Monitoring and				Date: <u> </u>			
•	g Technician:				-	Air Temp: 70°			
Purg	e / No Purge:	Purg			T.O	.C. Elev. (ft): 7			
	Diameter (in):	:1			Total We	ell Depth (ft):	<u> </u>		
	al D.T.W. (ft): m D.T.W. (ft):		Time: Time:	1/15		_(taken at initial gauging (taken prior to purging	,		
	m D.1.W. (π): al D.T.W. (ft):		_ Time: Time:	143	ــــــــــــــــــــــــــــــــــــــ	_(taken prior to purging _(taken after sample col	-		
	APL Present:		D.T.W	v.:	Th	ickness:T	•		
	<del></del>		Paramete	rs - Rec	orded [	During Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(sersverse for eals.)	Notes/Observations		
1434	11,95	2.362	0.14	7.29	-126.5	75			
1436	11.45	2.339	0.25	7.28	-118.2				
1439	11,3Z	2.340	0.11		-12Z9				
1442	11,36		0.19		-114.3				
1445	11.09		0.22	7.28					
1450							Sumple Collector		
Analyti	ical Parame	ters (include :	analysis r	nethod :	and nur	mber and type of sar	mple containers)		
		BTEX per EP	'A Method {	3260 (3 40	0mL Vials	s w/ HCl preserve)			
	G	RO & DRO per	EPA Metho	od 8015B	(1 40mL	Vials w/ HCl preserve)			
	G	RO & DRO per	EPA Metho	od 8015B	(40mL V	/ial w/ no preservative)			
	Di	isposal of Purg	ed Water:						
Collec	cted Samples	Stored on Ice i	in Cooler:	Yes_					
	-	stody Record C	-	\					
		•	· · ·		ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipm	ent Used Dur		-			terface Level, YSI Water			
		-	New Dispo	· · · · · · · · · · · · · · · · · · ·					
Notes/Com	ments:								



### COVER LETTER

Wednesday, April 07, 2010

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

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Sammons #2 Pipeline Spill

Dear Tami Ross:

Order No.: 1004033

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 4/2/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



Date: 07-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004033

Client Sample ID: SB #1

Collection Date: 3/30/2010 12:49:00 PM

Project:

Sammons #2 Pipeline Spill

Date Received: 4/2/2010

Matrix: SOIL

Lab ID:

1004033-01

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	<u> </u>			Analyst: JB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/6/2010 9:43:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1.	4/6/2010 9:43:37 PM
Surr: DNOP	86.2	61.7-135	%REC	1	4/6/2010 9:43:37 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSE
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2010 3:03:45 PM
Surr: BFB	100	65.9-118	%REC	1	4/5/2010 3:03:45 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSE
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	4/5/2010 3:03:45 PM
Benzene	ND	0.050	mg/Kg	1	4/5/2010 3:03:45 PM
Toluene	ND	0.050	mg/Kg	1	4/5/2010 3:03:45 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2010 3:03:45 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/5/2010 3:03:45 PM
Surr: 4-Bromofluorobenzene	106	64.7-120	%REC	1	4/5/2010 3:03:45 PM
EPA METHOD 418.1: TPH					Analyst: JB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/5/2010

#### Qualifiers:

PQL Practical Quantitation Limit

Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

Estimated value

Analyte detected below quantitation limits

Non-Chlorinated NC

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

Not Detected at the Reporting Limit

Date: 07-Apr-10

CLIENT:

**Animas Environmental Services** 

Lab Order:

1004033

Sammons #2 Pipeline Spill

Project: Lab ID:

1004033-02

Client Sample ID: SB #2

Collection Date: 3/30/2010 1:14:00 PM

Date Received: 4/2/2010

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	· · · · · ·			Analyst: JB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/6/2010 11:29:55 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/6/2010 11:29:55 PM
Surr: DNOP	79.1	61.7-135	%REC	1	4/6/2010 11:29:55 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	. ND	5.0	mg/Kg	1	4/5/2010 3:33:57 PM
Surr: BFB	94.9	65.9-118	%REC	1	4/5/2010 3:33:57 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	. 1	4/5/2010 3:33:57 PM
Benzene	ND	0.050	mg/Kg	1	4/5/2010 3:33:57 PM
Toluene	ND	. 0.050	mg/Kg	1	4/5/2010 3:33:57 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2010 3:33:57 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/5/2010 3:33:57 PM
Surr: 4-Bromofluorobenzene	96.6	64.7-120	%REC	1	4/5/2010 3:33:57 PM
EPA METHOD 418.1: TPH					Analyst: JB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/5/2010

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 2 of 6

Date: 07-Apr-10

CLIENT:

**Animas Environmental Services** 

Lab Order:

1004033

Sammons #2 Pipeline Spill

Project: Lab ID:

1004033-03

Client Sample ID: SB #3

Collection Date: 3/30/2010 1:27:00 PM

Date Received: 4/2/2010

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2010 12:05:32 AM
Motor Oil Range Organics (MRO)	ND ·	50	mg/Kg	1	4/7/2010 12:05:32 AM
Surr: DNOP	93.2	61.7-135	%REC	1	4/7/2010 12:05:32 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	m <b>g/K</b> g	1	4/5/2010 4:07:04 PM
Surr: BFB	108	65.9-118	%REC	1	4/5/2010 4:07:04 PM
EPA METHOD 8021B: VOLATILES			-		Analyst: NSB
Methyl tert-butyl ether (MTBE)	.ND	0.10	mg/Kg	1	4/5/2010 4:07:04 PM
Benzene	ND	0.050	mg/Kg	1	4/5/2010 4:07:04 PM
Toluene	ND	0.050	mg/Kg	1	4/5/2010 4:07:04 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2010 4:07:04 PM
Xylenes, Total	ND	0.10	mg/Kg	f <sup>-</sup>	4/5/2010 4:07:04 PM
Surr: 4-Bromofluorobenzene	112	64.7-120	%REC	1	4/5/2010 4:07:04 PM
EPA METHOD 418.1: TPH					Analyst: JB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/5/2010

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 3 of 6

Date: 07-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004033

Sammons #2 Pipeline Spill

Project: Lab ID:

1004033-04

Client Sample ID: SB #4

Collection Date: 3/30/2010 1:45:00 PM

Date Received: 4/2/2010

Matrix: SOIL

Analyses	Result	PQL	Qual (	J <b>nits</b>	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	,				Analyst: JB
Diesel Range Organics (DRO)	ND	10	rr	ıg/Kg	1 .	4/7/2010 12:41:00 AM
Motor Oil Range Organics (MRO)	ND	50	m	ng/Kg	1	4/7/2010 12:41:00 AM
Surr: DNOP	96.9	61.7-135	%	REC	1	4/7/2010 12:41:00 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	m	g/Kg	1	4/5/2010 4:37:34 PM
Surr: BFB	90.9	65.9-118	%	REC	1	4/5/2010 4:37:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-bulyl ether (MTBE)	ND	0.10	m	g/Kg	1	4/5/2010 4:37:34 PM
Benzene	ND	0.050	m	g/Kg	1 /	4/5/2010 4:37:34 PM
Toluene	ND	0.050	m	g/Kg	1	4/5/2010 4:37:34 PM
Ethylbenzene	ND	0.050	m	g/Kg	1	4/5/2010 4:37:34 PM
Xylenes, Total	ND	0.10	m	g/Kg	1	4/5/2010 4:37:34 PM
Surr: 4-Bromofluorobenzene	93.0	64.7-120	%	REC	1	4/5/2010 4:37:34 PM
EPA METHOD 418.1; TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20	m	g/Kg	1	4/5/2010

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- Ε Estimated value
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 4 of 6

Date: 07-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004033

1004033

Sammons #2 Pipeline Spill

Project: Lab ID:

1004033-05

Client Sample ID: SB #5

Collection Date: 3/30/2010 1:57:00 PM

Date Received: 4/2/2010

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2010 1:16:37 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2010 1:16:37 AM
Surr: DNOP	91.7	61.7-135	%REC	1	4/7/2010 1:16:37 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2010 5:08:01 PM
Surr: BFB	93.1	65.9-118	%REC	1	4/5/2010 5:08:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	4/5/2010 5:08:01 PM
Benzene	ND	0.050	mg/Kg	1	4/5/2010 5:08:01 PM
Toluene	ND	0.050	mg/Kg	1	4/5/2010 5:08:01 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2010 5:08:01 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/5/2010 5:08:01 PM
Surr: 4-Bromofluorobenzene	95.2	64.7-120	%REC	1	4/5/2010 5:08:01 PM
EPA METHOD 418.1: TPH					Analyst: JB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	. 1	4/5/2010

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 07-Apr-10

CLIENT: Lab Order: Animas Environmental Services

Willing Physicitic

1004033

Project:

Sammons #2 Pipeline Spill

Lab ID:

1004033-06

Client Sample ID: SB #6

Collection Date: 3/30/2010 2:29:00 PM

Date Received: 4/2/2010

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE (	ORGANICS		<del>-</del>		Analyst: JB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2010 2:25:54 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1.	4/7/2010 2:25:54 AM
Surr: DNOP	94.0	61.7-135	%REC	1	4/7/2010 2:25:54 AM
EPA METHOD 8015B: GASOLINE RANG	BE .				Analyst: NSE
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2010 5:38:26 PM
Surr: BFB	101	65.9-118	%REC	1	4/5/2010 5:38:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSE
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	4/5/2010 5:38:26 PM
Benzene	ND	0.050	mg/Kg	1	4/5/2010 5:38:26 PM
Toluene	, ND	0.050	mg/Kg	1	4/5/2010 5:38:26 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2010 5:38:26 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/5/2010 5:38:26 PM
Surr: 4-Bromofluorobenzene	103	64.7-120	%REC	1	4/5/2010 5:38:26 PM
EPA METHOD 418.1: TPH					Analyst: JB
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	4/5/2010

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 6 of 6

Client:

**Animas Environmental Services** 

Project:

Sammons #2 Pipeline Spill

Work Order:

1004033

Method: EPA Method 418.1: TPI Sample ID: MB-21833 Petroleum Hydrocarbons, TR Sample ID: LCS-21833 Petroleum Hydrocarbons, TR Sample ID: LCSD-21833	ND 117.7	MBLK mg/Kg LCS mg/Kg	20			Batch ID:	21833	Analysis Date:		4/5/2010
Petroleum Hydrocarbons, TR Sample ID: LCS-21833 Petroleum Hydrocarbons, TR Sample ID: LCSD-21833	117.7	mg/Kg LCS	20			Batch ID:	21833	Analysis Date:		AJ5/2010
Sample ID: LCS-21833 Petroleum Hydrocarbons, TR Sample ID: LCSD-21833	117.7	LCS	20					•		4/3/2010
Sample ID: LCSD-21833		mg/Kg				Batch iD:	21833	Analysis Date:		4/5/2010
	445.0	LCSD	20	100	7.38	110 Batch ID:	82 <b>21833</b>	. 114 Analysis Date:		4/5/2010
Petroleum Hydrocarbons, TR	115.0	mg/Kg	20	100	7.38	108	82	114 2.34	20	
Method: EPA Method 8015B; DI	esel Renge	Organics				,			,	
Sample ID: 1004033-01AMSD		MSD				Batch ID:	21841	Analysis Date:	4/6/2010 10	:54:29 PM
Diesel Range Organics (DRO)	36.80	mg/Kg	10	50	0	73.6	67.4	117 4.87	17.4	
Sample ID: MB-21841		MBLK				Batch ID:	21841	Analysis Date:	4/6/2010 7	:56:29 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10							
Motor Oil Range Organics (MRO)	ND	mg/Kg	50							
Sample ID: LCS-21841		LCS				Batch iD:	21841	Analysis Date:	4/6/2010 8	:32:12 PM
Diesel Range Organics (DRO)	35.91	mg/Kg	10	50	0	71.8	64.6	116		
Sample ID: LCSD-21841		LCSD				Batch ID:	21841	Analysis Date:	4/6/2010 9	:07:54 PM
Diesel Range Organics (DRO)	34.99	mg/Kg	10	50	0	70.0	64.6	116 2.59	17.4	
Sample ID: 1004033-01AMS		MS				Batch ID:	21841	Analysis Date:	4/6/2010 10	:19:02 PM
Diesel Range Organics (DRO)	38.64	mg/Kg	10	50	0	77.3	67.4	117		
Wethod: EPA Method 8015B: Ga	soline Ran	ge								
Sample ID: MB-21834		MBLK				Batch ID:	21834	Analysis Date:	4/5/2010 10	:41:47 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0							
Sample ID: LCS-21834		LCS				Batch ID:	21834	Analysis Date:	4/5/2010 8	:40:21 PM
Basoline Range Organics (GRO)	30.40	mg/Kg	5.0	25	0	122	77.7	135		
Method: EPA Method 8021B: Vol	latiles				,					
ample ID: MB-21834		MBLK				Batch ID:	21834	Analysis Date:	4/5/2010 10:	41:47 PM
lethyl tert-butyl ether (MTBE)	, ND	mg/Kg	0.10							
Senzene	ND	mg/Kg	0.050							
oluene	ND	mg/Kg	0.050							
thylbenzene	ND	mg/Kg	0.050							
ylenes, Total	ND	mg/Kg	0.10							
ample ID: LCS-21834		LCS				Batch ID:	21834	Analysis Date:	4/5/2010 10:	11:30 PM
lethyl tert-butyl ether (MTBE)	1.253	mg/Kg	0.10	1	0	125	67.9	135	•	
enzene	0.9264	mg/Kg	0.050		0.0117	91.5	78.8	132		
oluene	0.8964	mg/Kg	0.050	1	0	89.6	78.9	112		
thylbenzene ylenes, Total	0.9721 2.933	mg/Kg mg/Kg	0.050 0.10	10	0.0142 0	95.8 97.8	69.3 73	125 128		

(	)	11	8	ı	i	ī	e	r	9	•

E Estimated value

ND Not Detected at the Reporting Limit

NC Non-Chlorinated

R RPD outside accepted recovery limits

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

### Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL			•	Date Red	eived:		4/2/2010	
Work Order Number 1004033				Receive	ed by: TLS		21	
Checklist completed by:	<u> </u>		U) a	Sample	iD labels checked		Initials	
Matrix:	Carrier name:	Gre	hound					
Shipping container/cooler in good condition?		Yes	$\mathbf{V}$	No 🗔	Not Present			
Custody seals intact on shipping container/coo	ler?	Yes	V	No 🗌	Not Present		Not Shipped	
Custody seals intact on sample bottles?		Yes	. 🗹	No 🗌	N/A			
Chain of custody present?		Yes	$\checkmark$	No 🗌				
Chain of custody signed when relinquished and	d received?	Yes	$\checkmark$	No 🗆				
Chain of custody agrees with sample labels?		Yes	$\checkmark$	No 🗌				
Samples in proper container/bottlé?		Yes	$\checkmark$	No 🗌				
Sample containers intact?		Yes	$\checkmark$	No 🗌				
Sufficient sample volume for indicated test?		Yes	$\mathbf{Z}$	No 🗀				
All samples received within holding time?		Yes	$\mathbf{V}$	No 🗌			Number o	f preserved
Water - VOA vials have zero headspace?	No VOA vials subm	itted	$\checkmark$	Yes 🗌	No 🗌		bottles che pH:	ecked for
Water - Preservation labels on bottle and cap n	natch?	Yes		No 🗌	N/A 🗹			. <del></del>
Water - pH acceptable upon receipt?		Yes		No 🗌	N/A 🗹		<2 >12 unl below.	ess noted
Container/Temp Blank temperature?		1.	3°	<6° C Acce	•		Delow.	
COMMENTS:				If given suffi	cient time to cool.		•	
						==:		
	,							
Client contacted	Date contacted:				Person contacted			
Contacted by:	Regarding:							
Comments:			- <del></del>					
Corrective Action							· · · · · · · · · · · · · · · · · · ·	

	HALL ENVIKONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com	is NE - Albuquerque, NM 87109		Ana		s,g(	Dd 8	(HA \$808 \ \$3)	or P.	EDB (Metho 8310 (PNA c RCRA 8 Methons (F,Cl 8081 Pestici 8270 (Semi-D&O /GR	×	*	X	<b>X</b>		X						acted data will be clearly notated on the analytical report.
	- <b>-</b>		4901 Hawkins NE	Tel. 505-345-3975		(les	Die	/se5			DON Method	X	×	×	×	×	X				S:		Any sub-c
			490	Te		_			НФТ 4	3E	TM + X3T8	~					7				Remarks:		ssibility.
_				Γ		()	1208	8) 🖷			BTEX +	×	×	×	×	×	X	 	 	 	ď		this pos
i	□ Rush		#2 Pipelin Spill		091204			Kass	~ / /2055		Preservative Type	1	2	- 3	כ	- 10	ح ا				4 2 C 8 33	Date Time	ited laboratories. This serves as notice of
nd Time	ğ	me:	2000		60	anager:		lam	18-	12		43									<	2	her accred
Tum-Around Time:	R Standard	Project Na	Sammons	Project #:		Project Manager:	1	10	Sampler:		Container Type and #	1-40020ples					<b>&gt;</b> }				Received by:	Received by:	ntracted to off
cord	Client: Animas Environmental		355: 614 E. Comancha		125-804-2281	7202-tre-	.age:	Level 4 (Full Validation)	□ Other		Matrix Sample Request ID	Si) 58#1	1314 \ 58 #2	1327 / 58 #3	1345 / SB #4	1357 / SB #5	1429 - 58 #6				Relinquished by:  Relinquished by:  Relinquished by:	le: Refinquished by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Cha	Client: Ani	Somes	Mailing Add	Farmera	Phone #:	email or Fax#: Sるく	QA/QC Package:	Standard Standard	Accreditation	□ EDD (Type)	Date Tir	3-30-10 1249	/3/	/3	/ /34	/ 13	771				Statto Time:	Date: Time:	If nece



### COVER LETTER

Monday, April 26, 2010

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

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Sammons #2 Pipeline Spill

Dear Tami Ross:

Order No.: 1004456

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 4/21/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682 ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Project:

Sammons #2 Pipeline Spill

Lab ID:

1004456-01

Client Sample ID: MW-1

Collection Date: 4/20/2010 11:56:00 AM

Date Received: 4/21/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E				Analyst: JB
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/25/2010 12:28:46 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	4/25/2010 12:28:46 AM
Surr: DNOP	121	86.9-151	%REC	1	4/25/2010 12:28:46 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	4/23/2010 3:15:17 PM
Surr: BFB	88.9	55.2-107	%REC	1	4/23/2010 3:15:17 PM
EPA METHOD 8260B: VOLATILES					Analyst: HL
Benzene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
Toluene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Ethylbenzene	ND .	1.0	µg/L	1	4/21/2010 7:19:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,2,4-Trimethylbenzens	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,2-Dibromoethane (EDB)	ND	1,0	μg/L	1	4/21/2010 7:19:00 PM
Naphthalene	ND	2.0	μg/L	1	4/21/2010 7:19:00 PM
1-Methylnaphthalene	ND	4.0	μ <b>g/L</b>	1	4/21/2010 7:19:00 PM
2-Methylnaphthalene	ND	4.0	μ <b>g</b> /L	1	4/21/2010 7:19:00 PM
Acetone	ND	10	μg/L	1	4/21/2010 7:19:00 PM
Bromobenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Bromodichloromethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Bromoform	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Bromomethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
2-Butanone	ND	10	μg/L	1	4/21/2010 7:19:00 PM
Carbon disulfide	ND	10	μg/L	1	4/21/2010 7:19:00 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Chlorobenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Chloroethane	ND	2.0	μg/L	1	4/21/2010 7:19:00 PM
Chloroform	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Chloromethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
2-Chlorotoluene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
4-Chlorotoluene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
cis-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	4/21/2010 7:19:00 PM
Dibromochloromethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Dibromomethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,3-Dichlorobenzene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 1 of 16

Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Client Sample ID: MW-1

Lab Oruc

#0.75 11 G F

Collection Date: 4/20/2010 11:56:00 AM

Project:

Sammons #2 Pipeline Spill

Date Received: 4/21/2010

Lab ID:

1004456-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES			· · · · · · · · · · · · · · · · · · ·		Analyst: HL
1,4-Dichlorobenzene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
Dichlorodifluoromethane	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
1,1-Dichloroethane	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
1,1-Dichloroethene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,3-Dichloropropane	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	4/21/2010 7:19:00 PM
1,1-Dichloropropene	ND	1.0	μg/L	· 1	4/21/2010 7:19:00 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
2-Hexanone	ND	10	μg/L	1	4/21/2010 7:19:00 PM
Isopropylbenzene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
4-isopropyitoluene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	4/21/2010 7:19:00 PM
Methylene Chloride	ND	3.0	μg/L	1	4/21/2010 7:19:00 PM
n-Butylbenzene	ND	1.0	µg/L	1	4/21/2010 7:19:00 PM
n-Propylbenzene	ND	. 1.0	μg/L	1	4/21/2010 7:19:00 PM
sec-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Styrene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
tert-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,1,1,2-Tetrachioroethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1	4/21/2010 7:19:00 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,2,4-Trichiorobenzene	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	4/21/2010 7:19:00 PM
Vinyl chloride	ND	1.0	μg/L	1	4/21/2010 7:19:00 PM
Xylenes, Total	ND	1.5	μg/L	1	4/21/2010 7:19:00 PM
Surr: 1,2-Dichloroethane-d4	103	54.6-141	%REC	1	4/21/2010 7:19:00 PM
Surr: 4-Bromofluorobenzene	115	60.1-133	%REC	1	4/21/2010 7:19:00 PM
Surr: Dibromofluoromethane	104	78.5-130	%REC	1	4/21/2010 7:19:00 PM
Surr: Toluene-d8	105	79.5-126	%REC	1	4/21/2010 7:19:00 PM

### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

**CLIENT:** 

**Animas Environmental Services** 

Lab Order:

1004456

Project:

Sammons #2 Pipeline Spill

Lab ID:

1004456-02

Client Sample ID: MW-2

Collection Date: 4/20/2010 12:39:00 PM

Date Received: 4/21/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE		· · · · · · · · · · · · · · · · · · ·				Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/25/2010 1:04:27 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/25/2010 1:04:27 AM
Surr: DNOP	127	86.9-151		%REC	1	4/25/2010 1:04:27 AM
EPA METHOD 8015B: GASOLINE RANG	<b>.</b>					Analyst: NSB
Gasoline Range Organics (GRO)	1.1	0.050		mg/L	1	4/23/2010 3:44:10 PM
Surr. BFB	125	55.2-107	s	%REC	1	4/23/2010 3:44:10 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	11	1.0		µg/L	1	4/21/2010 7:48:15 PM
Toluene	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
Ethylbenzene	2.4	1.0		μg/L	1	4/21/2010 7:48:15 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
1,2,4-Trimethylbenzene	1.5	1.0		μg/L	1	4/21/2010 7:48:15 PM
1,3,5-Trimethylbenzene	1.1	1.0		μ <b>g/</b> L	1	4/21/2010 7:48:15 PM
1,2-Dichloroethane (EDC)	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
1,2-Dibromoethane (EDB)	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
Naphthalene	ND	2.0		µg/L	1	4/21/2010 7:48:15 PM
1-Methylnaphthalene	ND	4.0		μg/L	1	4/21/2010 7:48:15 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/21/2010 7:48:15 PM
Acetone	ND	10		μg/L	1	4/21/2010 7:48:15 PM
Bromobenzene	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
Bromodichloromethane	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
Bromoform	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
Bromomethane	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
2-Butanone	ND	10		µg/L	1	4/21/2010 7:48:15 PM
Carbon disulfide	· ND	10		μg/L	1	4/21/2010 7:48:15 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/21/2010 7:48:15 PM
Chlorobenzene	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
Chloroethane	ND	2.0		µg/L	1	4/21/2010 7:48:15 PM
Chloroform	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
Chloromethane	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/21/2010 7:48:15 PM
4-Chlorotoluene	ND	1.0		μg/L	1	4/21/2010 7:48:15 PM
cis-1,2-DCE	ND	1.0		µg/L	1	4/21/2010 7:48:15 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/21/2010 7:48:15 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	. 1	4/21/2010 7:48:15 PM
Dibromochloromethane	ND	1.0		µg/L	1	4/21/2010 7:48:15 PM
Dibromomethane	ND	1.0		µg/L	1	4/21/2010 7:48:15 PM
1,2-Dichlorobenzene	ND ·	1.0		µg/L.	1	4/21/2010 7:48:15 PM
1,3-Dichlorobenzene	ND	1.0		ug/L	1	4/21/2010 7:48:15 PM

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 3 of 16

Date: 26-Apr-10

CLIENT:

**Animas Environmental Services** 

Lab Order:

1004456

Client Sample ID: MW-2

Collection Date: 4/20/2010 12:39:00 PM

Project:

Sammons #2 Pipeline Spill

Date Received: 4/21/2010

Lab ID:

1004456-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: HL
1,4-Dichlorobenzene	ND	1.0	μg/Ł	. 1	4/21/2010 7:48:15 PN
Dichlorodifluoromethane	, ND	1.0	μg/L	1	4/21/2010 7:48:15 PN
1,1-Dichloroethane	ND	1.0	μg/L	1	4/21/2010 7:48:15 PN
1,1-Dichloroethene	ND	1.0	μg/L	1	4/21/2010 7:48:15 PN
1,2-Dichloropropane	ND	1.0	µg/L	1	4/21/2010 7:48:15 PN
1,3-Dichloropropane	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	4/21/2010 7:48:15 PN
1,1-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
Hexachlorobutadiene	· ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
2-Hexanone	ND	10	μg/L	1	4/21/2010 7:48:15 PM
Isopropylbenzene	1.6	1.0	μg/L	1	4/21/2010 7:48:15 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
4-Methyl-2-pentanone	ND	10	µg/L	• 1	4/21/2010 7:48:15 PN
Methylene Chloride	ND	3.0	µg/L	1	4/21/2010 7:48:15 PM
n-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
n-Propylbenzene	ND	1.0	μ <b>g/</b> L	1	4/21/2010 7:48:15 PM
sec-Butylbenzene	ND	. 1.0	μg/L	1	4/21/2010 7:48:15 PM
Styrene	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
tert-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	4/21/2010 7:48:15 PM
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	4/21/2010 7:48:15 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	4/21/2010 7:48:15 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	4/21/2010 7:48:15 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	1	4/21/2010 7:48:15 PM
1,1,2-Trichloroethane	ND	1.0	μ <b>g/</b> L	1	4/21/2010 7:48:15 PM
Trichloroethene (TCE)	ND	1.0	μ <b>g/</b> L	1	4/21/2010 7:48:15 PM
Trichiorofluoromethane	ND	1.0	µg/L	1	4/21/2010 7:48:15 PM
1,2,3-Trichloropropane	ND	2.0	µg/L	1	4/21/2010 7:48:15 PM
Vinyl chloride	ND	1.0	μg/L	1	4/21/2010 7:48:15 PM
Xylenes, Total	22	1:5	µg/L	1	4/21/2010 7:48:15 PM
Surr: 1,2-Dichloroethane-d4	78.7	54.6-141	%REC	1	4/21/2010 7:48:15 PM
Surr: 4-Bromofluorobenzene	110	60.1-133	%REC	1	4/21/2010 7:48:15 PM
Surr: Dibromofluoromethane	96.5	78.5-130	%REC	1	4/21/2010 7:48:15 PM
Surr: Toluene-d8	104	79.5-126	%REC	1	4/21/2010 7:48:15 PM

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Biank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Sammons #2 Pipeline Spill

Project: Lab ID:

1004456-03

Client Sample ID: FIELD BLANK

Collection Date: 4/20/2010 12:39:00 PM

**Date Received: 4/21/2010** 

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES			· · · · · · · · · · · · · · · · · · ·		Analyst: HL
Benzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Toluene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Ethylbenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Naphthalene	ND	2.0	µg/L	1	4/21/2010 8:17:25 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	4/21/2010 8:17:25 PM
2-Methylnaphthaiene	ND	4.0	µg/L	1	4/21/2010 8:17:25 PM
Acetone	ND	10	μg/L	1	4/21/2010 8:17:25 PM
Bromobenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Bromodichloromethane	ND	1.0	μg/L	1 1	4/21/2010 8:17:25 PM
Bromoform	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
Bromomethane	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
2-Butanone	ND	10	μg/ <b>L</b>	1	4/21/2010 8:17:25 PM
Carbon disulfide	ND	10	μg/L	1	4/21/2010 8:17:25 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Chlorobenzene	ND	1.0	μ <b>g/L</b>	1	4/21/2010 8:17:25 PM
Chloroethane	ND	2.0	μg/L	1	4/21/2010 8:17:25 PM
Chloroform	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Chloromethane	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
2-Chlorotoluene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
4-Chlorotoluene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
cis-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
cis-1,3-Dichloropropene	ND ·	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μ <b>g/L</b>	1	4/21/2010 8:17:25 PM
Dibromochloromethane	ND	1.0	μg/L	11	4/21/2010 8:17:25 PM
Dibromomethane	, ND	1.0	μ <b>g/L</b>	1	4/21/2010 8:17:25 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,1-Dichloroethene	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
2,2-Dichloropropane	ND	2.0	µg/L	1	4/21/2010 8:17:25 PM
1,1-Dichloropropene	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Sammons #2 Pipeline Spill

Project: Lab ID:

1004456-03

Client Sample ID: FIELD BLANK

Collection Date: 4/20/2010 12:39:00 PM

Date Received: 4/21/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: HL
2-Hexanone	ND	10	μg/L	1	4/21/2010 8:17:25 PM
Isopropylbenzene	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
4-Isopropyltoluene	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	4/21/2010 8:17:25 PM
Methylene Chloride	ND	3.0	μg/L	1	4/21/2010 8:17:25 PM
n-Butylbenzene	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
n-Propylbenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
sec-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
Styrene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
tert-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1 .	4/21/2010 8:17:25 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	4/21/2010 8:17:25 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	4/21/2010 8:17:25 PM
1,1,2-Trichloroethane	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
Trichloroethene (TCE)	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
Trichlorofluoromethane	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
1,2,3-Trichloropropane	ND	2.0	µg/L	1	4/21/2010 8:17:25 PM
Vinyl chloride	ND	1.0	µg/L	1	4/21/2010 8:17:25 PM
Xylenes, Total	ND	1.5	µg/L	1	4/21/2010 8:17:25 PM
Surr: 1,2-Dichloroethane-d4	99.8	54.6-141	%REC	1	4/21/2010 8:17:25 PM
Surr: 4-Bromofluorobenzene	108	60.1-133	%REC	1	4/21/2010 8:17:25 PM
Surr: Dibromofluoromethane	106	78.5-130	%REC	1	4/21/2010 8:17:25 PM
Surr: Toluene-d8	107	79.5-126	%REC	. 1	4/21/2010 8:17:25 PM

### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 6 of 16

Date: 26-Apr-10

CLIENT:

**Animas Environmental Services** 

Lab Order:

1004456

Project:

Sammons #2 Pipeline Spill

Lab ID:

1004456-04

Client Sample ID: MW-3

Collection Date: 4/20/2010 1:13:00 PM

Date Received: 4/21/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: JB
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/25/2010 1:40:09 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	4/25/2010 1:40:09 AM
Surr: DNOP	126	86.9-151	%REC	1	4/25/2010 1:40:09 AM
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	m <b>g/L</b>	1	4/23/2010 4:13:03 PM
Surr: BFB	94.7	55.2-107	%REC	1	4/23/2010 4:13:03 PM
PA METHOD 8280B: VOLATILES					Analyst: HL
Benzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Toluene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
Ethylbenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Naphthalene	ND	2.0	μg/L	1	4/21/2010 8:46:38 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	4/21/2010 8:46:38 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	4/21/2010 8:46:38 PM
Acetone	ND	10	µg/L	1	4/21/2010 8:46:38 PM
Bromobenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Bromodichloromethane	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
Bromoform	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Bromomethane	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
2-Butanone	ND	10	μg/L	, 1	4/21/2010 8:46:38 PM
Carbon disulfide	ND	10	µg/Ł	1	4/21/2010 8:46:38 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Chlorobenzene	ND	1.0	µg/L	, 1	4/21/2010 8:46:38 PM
Chloroethane	ND	2.0	μg/L	1	4/21/2010 8:46:38 PM
Chloroform	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Chloromethane	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
2-Chiorotoluene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
4-Chlorotoluene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
cis-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	4/21/2010 8:46:38 PM
Dibromochloromethane	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Dibromomethane	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2-Dichlorobenzene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 7 of 16

Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Client Sample ID: MW-3

Project:

Sammons #2 Pipeline Spill

Date Received: 4/21/2010

Lab ID:

1004456-04

Matrix: AQUEOUS

Collection Date: 4/20/2010 1:13:00 PM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: HL
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,1-Dichloroethene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
1,2-Dichloropropane	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
2,2-Dichloropropane	ND	2.0	µg/L	1	4/21/2010 8:46:38 PM
1,1-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Hexachlorobutadiene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
2-Hexanone	ND	10	μg/L	1	4/21/2010 8:46:38 PM
Isopropylbenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
4-Isopropyltoluene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	4/21/2010 8:46:38 PM
Methylene Chloride	ND	3.0	µg/L	1	4/21/2010 8:46:38 PM
n-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
n-Propylbenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
sec-Butylbenzene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
Styrene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
tert-Butylbenzene	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
1,1,1,2-Tetrachloroethane	ΝĐ	1.0	μg/L	· 1	4/21/2010 8:46:38 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	4/21/2010 8:46:38 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
1,1,2-Trichloroethane	ND	1.0	µg/L	1	4/21/2010 8:46:38 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	4/21/2010 8:46:38 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	4/21/2010 8:46:38 PM
Vinyl chloride	ND	1.0	μg/L	1 ·	4/21/2010 8:46:38 PM
Xylenes, Total	ND	1.5	μg/L	1	4/21/2010 8:46:38 PM
Surr: 1,2-Dichloroethane-d4	100	54.6-141	%REC	1	4/21/2010 8:46:38 PM
Surr: 4-Bromofluorobenzene	111	60.1-133	%REC	1	4/21/2010 8:46:38 PM
Surr: Dibromofluoromethane	103	78.5-130	%REC	1	4/21/2010 8:46:38 PM
Surr: Toluene-d8	104	79.5-126	%REC	1	4/21/2010 8:46:38 PM

### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Client Sample ID: MW-4

Project:

1004456-05

Collection Date: 4/20/2010 1:48:00 PM

Lab ID:

Sammons #2 Pipeline Spill

Date Received: 4/21/2010 Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	Έ	· · · · · · · · · · · · · · · · · · ·			Analyst: JB
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	4/25/2010 2:15:33 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	. 1	4/25/2010 2:15:33 AM
Surr: DNOP	123	86.9-151	%REC	1	4/25/2010 2:15;33 AM
EPA METHOD 8016B: GASOLINE RA	NGE	•			Analyst: NSB
Gasoline Range Organics (GRO)	0.074	0.050	mg/L	1	4/23/2010 4:41:54 PM
Surr: BFB	98.7	55.2-107	%REC	1	4/23/2010 4:41:54 PM
EPA METHOD 8260B: VOLATILES					Analyst: HL
Benzene	9.9	1.0	μ <b>g/L</b>	1	4/21/2010 9:15:52 PM
Toluene	NĐ	1.0	μ <b>g</b> /L	1	4/21/2010 9:15:52 PM
Ethylbenzen <del>e</del>	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
1,2-Dichloroethane (EDC)	ND	1.0	µ <b>g/</b> L	1	4/21/2010 9:15:52 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Naphthalene	ND	2.0	μ <b>g/L</b>	1	4/21/2010 9:15:52 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	4/21/2010 9:15:52 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	4/21/2010 9:15:52 PM
Acetone	ND	10	μ <b>g/L</b>	1	4/21/2010 9:15:52 PM
Bromobenzene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Bromodichloromethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Bromoform	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Bromomethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
2-Butanone	ND	10	μg/L	1	4/21/2010 9:15:52 PM
Carbon disulfide	ND	10	μg/L	1	4/21/2010 9:15:52 PM
Carbon Tetrachloride	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
Chlorobenzene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Chloroethane	ND	2.0	μg/L	1	4/21/2010 9:15:52 PM
Chloroform	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Chloromethane	, ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
2-Chlorotoluene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
4-Chlorotoluene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
cis-1,2-DCE	ND	1.0	μ <b>g/L</b>	1	4/21/2010 9:15:52 PM
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	4/21/2010 9:15:52 PM
Dibromochloromethane	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
Dibromomethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,2-Dichlorobenzene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM

### Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Sammons #2 Pipeline Spill

Project: Lab ID:

1004456-05

Client Sample ID: MW-4

Collection Date: 4/20/2010 1:48:00 PM

Date Received: 4/21/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: HL
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,1-Dichloroethene	ND	1.0	μg/L	. <b>1</b>	4/21/2010 9:16:62 PM
1,2-Dichloropropane	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
1,3-Dichloropropane	, ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	4/21/2010 9:15:52 PM
1,1-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Hexachlorobutadiene	ŃD	1.0	μ <b>g/L</b>	1	4/21/2010 9:15:52 PM
2-Hexanone	ND	10	μ <b>g/</b> L	1	4/21/2010 9:15:52 PM
Isopropylbenzene	1.1	1.0	μg/L	1	4/21/2010 9:15:52 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PN
4-Methyl-2-pentanone	ND	10	μg/L	1	4/21/2010 9:15:52 PM
Methylene Chloride	ND	3.0	μ <b>g/</b> L	1	4/21/2010 9:15:52 PM
n-Butylbenzene	ND	1.0	µg/L	· 1	4/21/2010 9:15:52 PM
n-Propylbenzene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
sec-Butylbenzene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
Styrene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
tert-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1	4/21/2010 9:15:52 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Trichloroethene (TCE)	ND	1.0	µg/L	1	4/21/2010 9:15:52 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	4/21/2010 9:15:52 PM
Vinyi chloride	ND	1.0	μg/L	1	4/21/2010 9:15:52 PM
Xylenes, Total	ND	1.5	μg/L	1	4/21/2010 9:15:52 PM
Surr: 1,2-Dichloroethane-d4	95.5	54.6-141	%REC	1	4/21/2010 9:15:52 PM
Surr: 4-Bromofluorobenzene	113	60.1-133	%REC	1	4/21/2010 9:15:52 PM
Surr: Dibromofluoromethane	101	78.5-130	%REC	1	4/21/2010 9:15:52 PM
Surr: Toluene-d8	106	79.5-126	%REC	1	4/21/2010 9:15:52 PM

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

CLIENT:

**Animas Environmental Services** 

Lab Order:

1004456

Sammons #2 Pipeline Spill

Project: Lab ID:

1004456-06

Client Sample ID: MW-5

Collection Date: 4/20/2010 2:19:00 PM

Date Received: 4/21/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E					Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/25/2010 2:50:58 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/25/2010 2:50:58 AM
Surr: DNOP	123	86.9-151		%REC	1	4/25/2010 2:50:58 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	0.055	0.050		mg/L	1	4/23/2010 5:10:49 PM
Surr. BFB	107	55.2-107	S	%REC	1	4/23/2010 5:10:49 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	9.7	1.0		μg/L	1	4/21/2010 9:45:06 PM
Toluene	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
Ethylbenzene	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM
1,2-Dibromoethane (EDB)	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
Naphthalene	ND	2.0		µg/Ł	1	4/21/2010 9:45:06 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/21/2010 9:45:06 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/21/2010 9:45:06 PM
Acetone	ND	10		µg/L	1	4/21/2010 9:45:08 PM
Bromobenzene	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
Bromodichloromethane	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
Bromoform	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
Bromomethane	ND	1.0		μg/L	1	4/21/2010 9:45:08 PM
2-Butanone	ND	10		μ <b>g/L</b>	1	4/21/2010 9:45:06 PM
Carbon disulfide	ND	10		µg/L	1	4/21/2010 9:45:06 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM
Chlorobenzene	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM
Chloroethane	. ND	2.0		µg/L	1	4/21/2010 9:45:06 PM
Chloroform	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM
Chloromethane	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM
2-Chlorotoluene	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM
4-Chlorotoluene	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
cis-1,2-DCE	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
cis-1,3-Dichloropropene	ND	1.0		μ <b>g/L</b>	1	4/21/2010 9:45:06 PM
1,2-Dibromo-3-chloropropane	ND	2.0		μg/L	1	4/21/2010 9:45:06 PM
Dibromochloromethane	ND	1.0		μ <b>g/L</b>	1	4/21/2010 9:45:08 PM
Dibromomethane	ND	1.0		μg/L	1	4/21/2010 9:45:06 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	·1	4/21/2010 9:45:06 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/21/2010 9:45:06 PM

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

DF

Date Analyzed

4/21/2010 9:45:06 PM

4/21/2010 9:45:06 PM

4/21/2010 9:45:06 PM

CLIENT:

Animas Environmental Services

Result

ND

107

103

Lab Order:

1004456

Project:

Sammons #2 Pipeline Spill

Lab ID:

Analyses

1004456-06

Client Sample ID: MW-5

Collection Date: 4/20/2010 2:19:00 PM

Date Received: 4/21/2010 Matrix: AQUEOUS

**EPA METHOD 8260B: VOLATILES** Analyst: HL ND 4/21/2010 9:45:06 PM 1,4-Dichlorobenzene 1.0 1 μg/L Dichlorodifluoromethane ND 1.0 μg/L 1 4/21/2010 9:45:06 PM 1.1-Dichloroethane ND 1.0 μg/L 1 4/21/2010 9:45:08 PM 1,1-Dichloroethene ND 1.0 μg/L 1 4/21/2010 9:45:08 PM 1,2-Dichloropropane ND 1.0 μg/L 1 4/21/2010 9:45:06 PM 1 1,3-Dichloropropane ND 1.0 μg/L 4/21/2010 9:45:06 PM 2,2-Dichloropropane ND 2.0 µg/L 4/21/2010 9:45:06 PM 1,1-Dichloropropene ND 1.0 µg/L 4/21/2010 9:45:06 PM Hexachiorobutadiene ND 4/21/2010 9:45:06 PM 1.0 µg/L 2-Hexanone ND 10 μg/L 4/21/2010 9:45:06 PM Isopropylbenzene 1.0 µg/L 4/21/2010 9:45:06 PM 1.7 4-Isopropyltoluene 1.0 4/21/2010 9:45:06 PM ND µg/L 4-Methyl-2-pentanone ND 10 µg/L 4/21/2010 9:45:08 PM Methylene Chloride ND 3.0 µg/L 4/21/2010 9:45:06 PM n-Butylbenzene ND 1.0 µg/L 1 4/21/2010 9:45:06 PM n-Propylbenzene 4/21/2010 9:45:08 PM ND 1.0 µg/L ND 4/21/2010 9:45:06 PM sec-Butylbenzene 1.0 µg/L Styrene ND 1.0 µg/L 4/21/2010 9:45:06 PM tert-Butylbenzene ND 1.0 µg/L 4/21/2010 9:45:06 PM

**PQL Qual Units** 

1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	4/21/2010 9:45:06 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/21/2010 9:45:06 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 9:45:06 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 9:45:06 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	4/21/2010 9:45:06 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	4/21/2010 9:45:08 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	1	4/21/2010 9:45:06 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	4/21/2010 9:45:06 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	4/21/2010 9:45:06 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	4/21/2010 9:45:06 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	4/21/2010 9:45:06 PM
Vinyl chloride	ND	1.0	μg/L	1	4/21/2010 9:45:06 PM
Xylenes, Total	ND	1.5	μg/L	1	4/21/2010 9:45:06 PM
Surr: 1,2-Dichloroethane-d4	103	54.6-141	%REC	1	4/21/2010 9:45:06 PM
Surr: 4-Bromofluorobenzene	114	60.1-133	%REC	1	4/21/2010 9:45:06 PM

78.5-130

79.5-126

1.0

µg/L

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value

Surr: Toluene-d8

- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

Surr: Dibromofluoromethane

1,1,1,2-Tetrachloroethane

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit

%REC

%REC

1

S Spike recovery outside accepted recovery limits

Page 12 of 16

Date: 26-Apr-10.

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Sammons #2 Pipeline Spill

Project: Lab ID:

1004456-07

Client Sample ID: MW-6

Collection Date: 4/20/2010 2:50:00 PM

Date Received: 4/21/2010

Matrix: AQUEOUS

Lab ID: 1004430-07				Mat		
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	<u> </u>					Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/25/2010 3:26:19 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/25/2010 3:26:19 AM
Surr: DNOP	123	86.9-151		%REC	1	4/25/2010 3:26:19 AM
EPA METHOD 8015B: GASOLINE RANG	GE	•				Analyst: NSB
Gasoline Range Organics (GRO)	3.2	0.050		mg/L	1	4/23/2010 5:39:39 PM
Surr: BFB	124	55.2-107	\$	%REC	1	4/23/2010 5:39:39 PM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	4.6	1.0		μg/L	1	4/22/2010 3:59:58 PM
Toluene	ND	1.0		μg/L	1	4/22/2010 3:59:58 PM
Ethylbenzene	11	1.0		μg/L	1	4/22/2010 3:59:58 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	4/22/2010 3:59:58 PM
1,2,4-Trimethylbenzene	6.6	1.0		μg/L	1	4/22/2010 3:59:58 PM
1,3,5-Trimethylbenzene	4.0	1.0		µg/L	1	4/22/2010 3:59:58 PM
1,2-Dichloroethane (EDC)	ND	1.0		μg/L	1	4/22/2010 3:59:58 PM
1,2-Dibromoethane (EDB)	ND	1.0		μg/L	1	4/22/2010 3:59:58 PM
Naphthalene	ND	2.0		µg/L	1	4/22/2010 3:59:58 PM
1-Methylnaphthalene	ND	4.0		μg/L	1	4/22/2010 3:59:58 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/22/2010 3:59:58 PM
Acetone	ND	10		μg/L	1	4/22/2010 3:59:58 PM
Bromoberizene	ND	1.0		μg/L	1	4/22/2010 3:59:58 PM
Bromodichloromethane	ND	1.0		µg/L	1	4/22/2010 3:59:58 PM
Bromoform	ND	1.0		μ <b>g/L</b>	1	4/22/2010 3:59:58 PM
Bromomethane	ND	1.0		μg/L	1	4/22/2010 3:59:58 PM
2-Butanone	ND	10		μg/L	1	4/22/2010 3:59:58 PM
Carbon disulfide	ND	10		μg/L	1	4/22/2010 3:59:58 PM
Carbon Tetrachloride	ND	1.0		μg/L	1	4/22/2010 3:59:58 PM
Chlorobenzene	ND	1.0		μ <b>g/L</b>	1	4/22/2010 3:59:58 PM
Chloroethane	ND	2.0		µg/L	1	4/22/2010 3:59:58 PM
Chloroform	ND	1.0	-	μg/L	1	4/22/2010 3:59:58 PM
Chloromethane	ND	1.0		ug/L	1	4/22/2010 3:59:58 PM
2-Chiorotoluene	ND	1.0		ug/L	1	4/22/2010 3:59:58 PM
4-Chlorotoluene	ND	1.0		ug/L	f	4/22/2010 3:59:58 PM
cis-1,2-DCE	ND	1.0		ıg/L	1	4/22/2010 3:59:58 PM
cis-1,3-Dichloropropene	ND	1.0		ıg/L	1	4/22/2010 3:59:58 PM
1,2-Dibromo-3-chloropropane	ND	2.0		ıg/L	1	4/22/2010 3:59:58 PM
Dibromochloromethane	ND	1.0		ıg/L	1	4/22/2010 3:59:58 PM
Dibromomethane	ND	1.0		ıg/L	1	4/22/2010 3:59:58 PM
1,2-Dichlorobenzene	ND	1.0		ıg/L	1	4/22/2010 3:59:58 PM
.,,	ND	1.0	-	ıg/L	1	4/22/2010 3:59:58 PM

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

1004430

Sammons #2 Pipeline Spill

Project: Lab ID:

1004456-07

Client Sample ID: MW-6

Collection Date: 4/20/2010 2:50:00 PM

Date Received: 4/21/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: HL
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/22/2010 3:59:58 PN
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
1,1-Dichloroethane	ND	1.0	μ <b>g/L</b>	1	4/22/2010 3:59:58 PN
1,1-Dichloroethene	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	4/22/2010 3:59:58 PM
1,1-Dichioropropene	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
Hexachlorobutadiene	ND	1.0	µg/L	1	4/22/2010 3:59:58 PM
2-Hexanone	ND	10	μg/L	1	4/22/2010 3:59:58 PM
Isopropylbanzene	1.7	1.0	μg/L	1	4/22/2010 3:59:58 PM
4-isopropyitoluene	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	4/22/2010 3:59:58 PM
Methylene Chloride	ND	3.0	μg/L	1	4/22/2010 3:59:58 PM
n-Butylbenzene	ND	1.0	µg/L	1	4/22/2010 3:59:58 PM
n-Propylbenzene	1.4	1.0	μg/L	1	4/22/2010 3:59:58 PM
sec-Butylbenzene	1.0	1.0	µg/L	1	4/22/2010 3:59:58 PM
Styrene	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
tert-Butylbenzene	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
1,1,1,2-Tetrachioroethane	ND	1.0	µg/L	1	4/22/2010 3:59:58 PM
1,1,2,2-Tetrachloroethane	. ND	2.0	μg/L	1	4/22/2010 3:59:58 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
rans-1,3-Dichloropropene	ND	1.0	µg/L	1	4/22/2010 3:59:58 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	4/22/2010 3:59:58 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
1,1,2-Trichloroethane	ND	1.0	µg/L	- 1	4/22/2010 3:59:58 PM
Trichloroethene (TCE)	ND	1.0	µg/L	1	4/22/2010 3:59:58 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
1,2,3-Trichloropropane	. ND	2.0	µg/L	1	4/22/2010 3:59:58 PM
/inyl chloride	ND	1.0	μg/L	1	4/22/2010 3:59:58 PM
(yienes, Total	47	1.5	µg/L	1	4/22/2010 3:59:58 PM
Surr: 1,2-Dichloroethane-d4	73.9	54.6-141	%REC	· 1	4/22/2010 3:59:58 PM
Surr: 4-Bromofluorobenzene	101	60.1-133	%REC	1	4/22/2010 3:59:58 PM
Surr: Dibromofluoromethane	93.2	78.5-130	%REC	1	4/22/2010 3:59:58 PM
Surr: Toluene-d8	104	79.5-126	%REC	1	4/22/2010 3:59:58 PM

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

CLIENT:

**Animas Environmental Services** 

Lab Order:

1004456

Project:

Sammons #2 Pipeline Spill

Lab ID:

1004456-08

Client Sample ID: TRIP BLANK

Collection Date:

Date Received: 4/21/2010

Matrix: TRIP BLANK

Analyses	Result	PQL (	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: HL
Benzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Toluene	ND	1.0	μg/L	1	4/21/2010 10;43:34 PM
Ethylbenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L ·	1	4/21/2010 10:43:34 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Naphthalene	ND	2.0	μg/L	1	4/21/2010 10:43:34 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	4/21/2010 10:43:34 PM
2-Methylnaphthalene	ND	4.0	µg/L	1	4/21/2010 10:43:34 PM
Acetone	ND	10	μg/Ľ	1	4/21/2010 10:43:34 PM
Bromobenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Bromodichloromethane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Bromoform	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Bromomethane	ND	1.0	μ <b>g/L</b>	1	4/21/2010 10:43:34 PM
2-Butanone	ND	10	μg/L	1	4/21/2010 10:43:34 PM
Carbon disulfide	ND	10	μg/L	1	4/21/2010 10:43:34 PM
Carbon Tetrachloride	· ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
Chlorobenzene	ND	1.0	μ <b>g/L</b>	1	4/21/2010 10:43:34 PM
Chloroethane	ND	2.0	µg/L	1	4/21/2010 10:43:34 PM
Chloroform	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Chloromethane	ND	1.0	μg/Ľ	1	4/21/2010 10:43:34 PM
2-Chlorotoluene	^ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
4-Chlorotoluene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
cis-1,2-DCE	NĐ	1.0	μ <b>g/L</b>	1	4/21/2010 10:43:34 PM
cls-1,3-Dichloropropene	ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	. 1	4/21/2010 10:43:34 PM
Dibromochloromethane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Dibromomethane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,3-Dichloropropane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	4/21/2010 10:43:34 PM
1,1-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Date: 26-Apr-10

CLIENT:

Animas Environmental Services

Lab Order:

1004456

Sammons #2 Pipeline Spill

Project: Lab ID:

1004456-08

Client Sample ID: TRIP BLANK

**Collection Date:** 

Date Received: 4/21/2010

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES	,		****		Analyst: HL
2-Hexanone	ND	10	μg/L	1	4/21/2010 10:43:34 PM
Isopropylbanzane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
4-Isopropyltoluens	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	4/21/2010 10:43:34 PM
Methylene Chloride	ND	3.0	µg/L	1	4/21/2010 10:43:34 PM
n-Butylbenzene	NĐ	1.0	μg/L	1	4/21/2010 10:43:34 PM
n-Propylbenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
sec-Butylbenzene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Styrene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
tert-Butylbenzene	· ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
1,1,1,2-Tetrachioroethane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,1,2,2-Tetrachioroethane	ND	2.0	µg/L	1	4/21/2010 10:43:34 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
trans-1,2-DCE	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
1,1,1-Trichloroethane	ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1 .	4/21/2010 10:43:34 PM
Trichloroethene (TCE)	ND	1.0	µg/L	1	4/21/2010 10:43:34 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	4/21/2010 10:43:34 PM
Vinyl chloride	ND	1.0	μg/L	1	4/21/2010 10:43:34 PM
Xylenes, Total	ND	1.5	μg/L	1	4/21/2010 10:43:34 PM
Surr: 1,2-Dichloroethane-d4	105	54.6-141	%REC	1	4/21/2010 10:43:34 PM
Surr: 4-Bromofluorobenzene	114	60.1-133	%REC	1	4/21/2010 10:43:34 PM
Surr: Dibromofluoromethane	108	78.5-130	%REC	1	4/21/2010 10:43:34 PM
Surr: Toluene-d8	101	79.5-126	%REC	1	4/21/2010 10:43:34 PM

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

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Client:

Animas Environmental Services

Project:

Sammons #2 Pipeline Spill

Work Order:

1004456

Analyte	Result	Units	PQL	SPK Va SF	PK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8016B: E Sample ID: MB-22023	Diesel Range	MBLK				Batch ID:	22023	Analysis	. Date:	4/24/2010	8·32·18 DA
	ND		1.0			Dator ID.	22023	Allalybia	Date.	7/27/2010	0.02.1011
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	ND	mg/L mg/L	5.0								
Sample ID: LCS-22023		LCS	3.0			Batch ID:	22023	Analysis	Date:	4/24/2010	7:07:54 PM
Diesel Range Organics (DRO) Sample ID: LCSD-22023	4.425	mg/L <i>LCSD</i>	1.0	5	0	88.5 Batch ID:	74 22023	157 Analysis	Date:	4/24/2010	7:43:19 PN
Diesel Range Organics (DRO)	4.476	mg/L	1.0	5	0	89.5	74	157	1.15	23	
Method: EPA Method 8015B: G	asoline Rar	nge									
Sample ID: 5ML RB		MBLK				Batch ID:	R38378	Analysis	Date:	4/23/2010 9	9:57:36 AN
Gasoline Range Organics (GRO) Sample ID: 2.5UG GRO LCS	ND	mg/L <i>LCS</i>	0.050			Batch ID:	R38378	Analysis	Date:	4/23/2010 8	3:03:50 PN
Gasoline Range Organics (GRO)	0.5284	mg/L	0.050	0.5	0	106	80	115			
Sample ID: 2.5UG GRO LCSD		LCSD		-/-		Batch ID:	R38378	Analysis	Date:	4/23/2010 8	3:32:43 PM
Gasoline Range Organics (GRO)	0.5070	mg/L	0.050	0.5	0	101	80	115	4.13	8.39	

ND Not Detected at the Reporting Limit

NC Non-Chlorinated

R RPD outside accepted recovery limits

E Estimated value

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

Client:

**Animas Environmental Services** 

Project:

Sammons #2 Pipeline Spill

Work Order:

1004456

Analyte	Result	Units	PQL	SPK Va SPK ref	%Rec L	owLimit Hig	hLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B Sample ID: 5ml rb	: VOLATILES	MBLK			Batch ID:	R38318	Analysi	s Date:	4/21/2010 1	0:40:03 AN
Benzene	ND	μg/L	1.0							
Toluene	ND	µg/L	1.0							
Ethylbenzene	ND	µg/L	1.0							
Methyl tert-butyl ether (MTBE)	ND	μg/L	1.0							
1,2,4-Trimethylbenzene	ND	μg/L	1.0							
1,3,5-Trimethylbenzene	ND	μg/L	1.0							
1,2-Dichloroethane (EDC)	ND	µg/L	1.0					٠.		
1,2-Dibromoethane (EDB)	ND	µg/L	1.0							
Naphthalene	ND	μg/L	2.0							
1-Methylnaphthalene	ND	μg/L	4.0							
2-Methylnaphthalene	ND	μg/L	4.0							
Acetone	ND	μg/L	10							
Bromobenzene	ND	μg/L	1.0							
Bromodichloromethane	ND	μg/L	1.0							
Bromoform	ND	µg/L	1.0							
Bromomethane	ND	μg/L	1.0							
2-Butanone	ND	μg/L	10							
Carbon disulfide	ND	μg/L	10							
Carbon Tetrachloride	ND	μg/L	1.0							
Chlorobenzene	ND	µg/L	1.0							
Chloroethane	ND	μg/L	2.0							
Chloroform	ND	μg/L	1.0							
Chloromethane	ND	μg/L	1.0							
2-Chlorotoluene	ND	µg/L	1.0							
4-Chlorotoluene	ND	μg/L μg/L	1.0							
cis-1,2-DCE	ND	μg/L μg/L	1.0							
cis-1,2-Doc	ND	μg/L	1.0							
1,2-Dibromo-3-chloropropane	ND	μg/L	2.0							
Dibromochloromethane	ND		1.0							
Dibromomethane	ND	μg/L	1.0							
1,2-Dichlorobenzene	ND	μg/L								
•	ND	μg/L	1.0 1.0							
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND	µg/L	1.0							
Dichlorodifluoromethane	ND	μg/ <b>L</b> μg/L	1.0							
1,1-Dichloroethane .	ND	μg/L μg/L	1.0							
1,1-Dichloroethene	ND	µg/L µg/L	1.0							
1,2-Dichloropropane	ND	µg/L µg/L	1.0							
1,3-Dichloropropane	ND	μg/L μg/L	1.0							
2,2-Dichloropropane	ND	μg/L μg/L	2.0							
1,1-Dichloropropene	ND	μg/L μg/L	1.0							
Hexachlorobutadiene	ND	μg/L μg/L	1.0							
2-Hexanone	ND		10							
Isopropylbenzene	ND	μg/L ug/l	1.0							
		μg/L								
4-Isopropyitoluene	ND	μg/L	1.0							

### Qualifiers:

R RPD outside accepted recovery limits

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

Client:

**Animas Environmental Services** 

Project:

Sammons #2 Pipeline Spill

Work Order:

1004456

Analyte	Result	Units	PQL	SPK Va SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B:	VOLATILES									
Sample ID: 5ml rb		MBLK			Batch ID:	R38318	Analysi	s Date:	4/21/2010 10	):40:03 AN
4-Methyl-2-pentanone	ND	μg/L	10							
Methylene Chloride	ND	μg/L	3.0							
n-Butylbenzene	ND	μg/L	1.0							
n-Propylbenzene	ND	μg/L	1.0							
sec-Butylbenzene	ND	μg/L	1.0							
Styrene	ND	µg/L	1.0							
tert-Butylbenzene	ND	µg/L	1.0							
1,1,1,2-Tetrachloroethane	ND	μg/L	1.0							
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0							
Tetrachloroethene (PCE)	ND	μg/L	1.0							
trans-1,2-DCE	ND	μg/L	1.0							
trans-1,3-Dichloropropene	ND	μg/L	1.0							
1,2,3-Trichlorobenzene	ND	μg/L	1.0							
1,2,4-Trichlorobenzene	ND	µg/L	1.0							
1,1,1-Trichloroethane	ND	μg/L	1.0							
1,1,2-Trichloroethane	ND	μg/L	1.0							
Frichloroethene (TCE)	ND	μ <b>g/L</b>	1.0							
Frichlorofluoromethane	ND	µg/L	1.0							
1,2,3-Trichioropropane	ND	μg/L	2.0							
/inyl chloride	ND	μg/i.	1.0							
(ylenes, Total	ND	μg/L	1.5							
Sample ID: 5ml rb		MBLK			Batch ID:	R38343	Analysis	Date:	4/22/2010 11:	35:42 AM
Benzene	ND	μg/L	1.0							
oluene	ND	μg/L	1.0							
thylbenzene	ND	μg/L	1.0							
Methyl tert-butyl ether (MTBE)	ND	μg/L	1.0							
,2,4-Trimethylbenzene	ND	μg/L	1.0							
,3,5-Trimethylbenzene	ND	μg/L	1.0					-		
,2-Dichloroethane (EDC)	ND	μg/L	1.0							
,2-Dibromoethane (EDB)	ND	μg/L	1.0							
laphthalene	ND	μg/L	2.0							
-Methylnaphthalene	ND	µg/L	4.0			,				
-Methylnaphthalene	ND	µg/L	4.0							
cetone	ND	µg/L	10							
romobenzene	ND	μg/L	1.0							
romodichloromethane	ND	μg/L	1.0							
romoform	ND	μg/L	1.0							
romomethane	ND	μg/L	1.0							
-Butanone	ND	μg/L	10							
arbon disulfide	ND	μg/L	10							
arbon Tetrachloride	ND	μg/L	1.0							
hlorobenzene	ND	µg/L	1.0							
hloroethane	ND	μg/L	2.0							

### Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Client:

Animas Environmental Services

Project:

Sammons #2 Pipeline Spill

Work Order:

1004456

Analyte	Result	Units	PQL	SPK Va SPK ref	%Rec L	.owLimit H	ighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B	: VOLATILES									
Sample ID: 5ml rb		MBLK			Batch ID:	R38343	Analys	is Date:	4/22/2010 1	1:35:42 AN
Chloromethane	ND	µg/L	1.0							
2-Chlorotoluene	ND	µg/L	1.0							
4-Chlorotoluene	ND	µg/L	1.0							
cis-1,2-DCE	ND	µg/L	1.0							
cls-1,3-Dichloropropene	ND	µg/L	1.0							
1,2-Dibromo-3-chloropropane	ND	μg/L	2.0							
Dibromochloromethane	ND	μg/L	1.0							
Dibromomethane	ND	μg/L	1.0							
1,2-Dichlorobenzene	ND	µg/L	1.0							
1,3-Dichlorobenzene	ND	µg/L	1.0							
1,4-Dichlorobenzene	ND	µg/L	1.0							
Dichlorodifluoromethane	ND	μg/L	1.0							
1,1-Dichloroethane	ND	μg/L	1.0							
1,1-Dichloroethene	ND	µg/L	1.0							
1,2-Dichloropropane	ND	μg/L	1.0							
1,3-Dichloropropane	ND	μg/L	1.0							
2,2-Dichloropropane	ND	μg/L	2.0							
1,1-Dichloropropene	ND	μg/L	1.0							
Hexachlorobutadiene	ND	μg/L	1.0							
2-Hexanone	ND	μg/L	10							
sopropylbenzene	ND	µg/L	1.0							
4-isopropyltoluene	ND	µg/L	1.0							
4-Isopropykoldene 4-Methyl-2-pentanone	ND	µg/L	10		•					
Methylene Chloride	ND	μg/L	3.0							
•	ND		1.0							
n-Butylbenzene		µg/L								
n-Propylbenzene	ND	µg/L	1.0 1.0							
sec-Butylbenzene	ND	µg/L								
Styrene	ND	µg/L	1.0							
ert-Butylbenzene	ND	µg/L	1.0							
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0							
,1,2,2-Tetrachloroethane	ND	μg/L	2.0							
etrachloroethene (PCE)	ND	µg/L	1.0							
rans-1,2-DCE	ND	µg/L	1.0							
rans-1,3-Dichloropropene	ND	µg/L	1.0							
,2,3-Trichlorobenzene	ND	µg/L	1.0							
,2,4-Trichlorobenzene	ND	μg/L 	1.0							
,1,1-Trichloroethane	ND	µg/L	1.0							
,1,2-Trichloroethane	ND	µg/L	1.0							
richloroethene (TCE)	ND	µg/L	1.0							
richlorofluoromethane	ND	µg/L	1.0							
,2,3-Trichloropropane	ND	µg/L	2.0							
inyl chloride	ND	µg/L	1.0							
ylenes, Total	ND	µg/L	1.5							
ample ID: 100ng lcs		LCS			Batch ID:	R38318	Analysis	Date:	4/21/2010 11:	:38:36 AM

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Client:

Animas Environmental Services

Project:

Sammons #2 Pipeline Spill

Work Order:

1004456

Analyte	Result	Units	PQL	SPK Va S	PK ref	%Rec L	owLlmit Hi	ghLimit	%RPD	RPDLimit Qual
Method: EPA Method 8260B: Sample ID: 100ng ics	VOLATILES	1.00				Batch ID:	R38318	Analysi	e Data:	4/21/2010 11:38:36 AM
Sample ID: 100ng ics		LCS				Daton il.	K303 10	•	5 Date.	4/2 1/20 10 11.50.50 AN
Benzene	19.08	μg/L	1.0	20	0	95.3	82.4	116		
Toluene	21.37	μg/L	1.0	20	0	107	89.5	123		
Chlorobenzene	22.00	μg/L	1.0	20	0	110	87.8	120		•
1,1-Dichloroethene	22.67	µg/L	1.0	20	0	113	90.3	138		
Trichloroethene (TCE)	18.45	µg/L	1.0	20	0	92.2	64	129		
Sample ID: 100ng Ics		LCS				Batch ID:	R38343	Analysi	B Date:	4/22/2010 1:03:51 PM
Benzene	18.29	μg/L	1.0	20	0	91.5	82.4	116		
Toluene	21.47	µg/L	1.0	20	0	107	89.5	123		
Chlorobenzene	22.67	µg/L	1.0	20	0	113	87.8	120		
1,1-Dichloroethene	21.35	µg/L	1.0	20	0	107	90.3	138		
Trichloroethene (TCE)	18.59	μg/L	1.0	20	0	92.9	64	129	-	

### Qualiflers:

ND Not Detected at the Reporting Limit

NC Non-Chlorinated

R RPD outside accepted recovery limits

E Estimated value

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

### Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL		Date Received	:	4/21/2010	
Work Order Number 1004458		Received by:	TLS	/	
Checklist completed by:	4 21 Dai	110	oels checked by	: Initials	
Matrix: Carrier name:	Greyhoung	<b>!</b>			
Shipping container/cooler in good condition?	Yes 🗹	No 🗆	Not Present	<u>.</u>	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗆	Not Present	Not Shipped	
Custody seals intact on sample bottles?	Yes 🗌	No 🗀	N/A		
Chain of custody present?	Yes 🗹	No 🗌			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗀			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌			
Samples in proper container/bottle?	Yes 🗹	No 🗀			
Sample containers intact?	Yes 🗹	No 🗀			
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌			
All samples received within holding time?	Yes 🗹	No 🗌		Number of presented bottles checked	
Water - VOA vials have zero headspace? No VOA vials subn	nitted 🗌	Yes 🗹	No 🗌	pH:	Ю
Water - Preservation labels on bottle and cap match?	Yes 🗌	No 🗀	N/A 🗹		
Water - pH acceptable upon receipt?	Yes 🗌	No 🗆	N/A 🗹	<2 >12 unless no below.	oted
Container/Temp Blank temperature?	2.3°	<6° C Acceptable If given sufficient ti		below.	
COMMENTS:					
Client contacted Date contacted:  Contacted by: Regarding:		Persor	contacted		
Trogalulity.					
Comments:					
Corrective Action			4444		_

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Tum-Around	以 Standard	Project Name:	Sammons	Project #:	在5	Project Manae		Tami	Sampler: A	Se 30		Container Type and #	6-40ml days	Cotton alex	2-400Ldux	6-40ml alass	, \	>	7						Received by:	Receivedor	contracted to other a
ecord	Client: Animas Envitonmental Services		Mailing Address: 624 E. Comanche	10 MM 874101	-561	25-324-2022		□ Level 4 (Full Validation)	Other			Matrix Sample Request ID	420 MW-1	7	4.0 Field Blanks	MK)-3	H-MW		4-0 MW-6	7 1					Relinquished by:	Relinquished by:	if necessary, samples submitted to Hall Environmental may be subcontracted to other
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