## 3R - 436

# RELEASE ASSESSMENT REPORT

DATE: 10/28/2011



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281
Dyrango, Colorado
970-403-3274

October 28, 2011

Aaron Dailey Enterprise Products Company 614 Reilly Avenue Farmington, New Mexico 87401

RE: Soil and Groundwater Sampling Results for Lateral 6C Release, San Juan County, New Mexico

Dear Mr. Dailey:

Animas Environmental Services, LLC (AES) is pleased to provide the soil and groundwater sampling results associated with a release which occurred along the Enterprise Products Company (Enterprise) 4-inch diameter Lateral 6C pipeline, located approximately 5 miles south of Bloomfield, San Juan County, New Mexico. A release was reported at the location on September 21, 2011, by Enterprise Bisti Gathering Area staff. On the same date, Aaron Lucero and Billy Snell of Enterprise were dispatched to locate and isolate the leak.

#### 1.0 Release Information

#### 1.1 Release Location

The release along the Enterprise Lateral 6C gathering line is located on Bureau of Land Management leased land within the NW¼, unit letter K, Section 26, T28N, R11W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36° 37.921′ and W107° 58.440′. The approximate site elevation is approximately 5,580 feet above mean sea level. A topographic site location map is included as Figure 1, and an aerial map showing the release location is included as Figure 2.

The location of the release is in an area characterized as mixed piñon-juniper woodland and sagebrush grasslands situated along a large intermittent surface water channel. Surface runoff drains east to Kutz Wash, which then flows north and ultimately discharges into the San Juan River. Based on the surrounding topography and landforms observed at the release location, AES has estimated the depth of groundwater to be less than 50 feet

below ground surface (bgs). The release is not located within a wellhead protection area, but it is located about 750 feet from a surface water body.

#### 1.2 Site Activities

AES was initially contacted by Aaron Dailey of Enterprise on September 21, 2011, and on September 22, 2011, Ross Kennemer and Tami Ross of AES met with Enterprise representatives at the release location. Representatives from Enterprise, AES, and Southwest Field Services were present on-site during the initial site activities. Release excavation and line repair activities were initiated on September 22, 2011, but due to the apparent size of the release, AES suggested that Enterprise conduct the line repair and then contact AES when excavation would continue. The cause of the release was identified as a line leak from a small (1/4-inch) corrosion hole on the underside of the line.

Following repair of the line leak, on September 23, 2011, Ross Kennemer of AES collected one soil sample from the base of the pipeline excavation and conducted field screening of the soil. Based on the field screening results, AES and Enterprise decided that a limited investigation of the release extent would be conducted at a later date by conducting soil test pits in the area surrounding the release location.

On October 11, 2011, Ross Kennemer of AES met Dave Harrison (Enterprise) and an excavation crew from Southwest Field Services at the release site to conduct the test pit excavations. Four soil test pits (TP-1 through TP-4) were installed in locations around the original release location at distances of up to 100 feet from the release point. During excavation of the test pits, AES recorded the encountered soil materials and collected field screening samples. A general lithologic sequence for the site is presented below:

0-2 feet bgs: tan, silty/sandy clay 2-4 feet bgs: stiff, brown clay 4-7 feet bgs: fine, tan sand

7-12 feet bgs: tan, fine-to-medium sand

12-16 feet bgs: dark, clayey sand, strong odor, water at about 16 feet

AES also collected a minimum of one soil sample for laboratory analysis from each test pit. Groundwater was encountered in two of the test pits (TP-2 and TP-4), so groundwater samples were collected from the test pits. In TP-2, free product was observed floating on the groundwater that entered the test pit. Groundwater was encountered in both TP-2 and TP-4 at approximately 16 feet bgs. In total, six test pit soil samples and two test pit groundwater samples were collected on October 11, 2011.

During the initial release excavation and line repair, approximately 52 cubic yards were transported for disposal at the Envirotech Landfarm, near Bloomfield, New Mexico. Approximately 40 cubic yards of clean backfill material were obtained from Envirotech and

delivered to the site as part of the soil disposal process. Copies of waste manifests for the contaminated soil are attached. A photograph log is also attached.

#### 2.0 Soil Sampling

On October 11, 2011, AES personnel conducted field screening and collected soil samples from the Lateral 6C soil test pits (TP-1 through TP-4). Six grab samples were collected at the following depths: TP-1 at 10 feet bgs, TP-2 at 12 feet and 15 feet bgs, TP-3 at 10 feet bgs, and TP-4 at 12 feet and 15 feet bgs. Soil sample locations are included on Figure 3.

#### 2.1 Soil Field Screening

Samples from the test pit excavations were field screened for volatile organic compound vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with isobutylene gas. OVM measurement locations and results are presented in Table 1 and in Figure 3.

#### 2.2 Soil Laboratory Analyses

One soil sample for laboratory analysis was collected from each field screening location in the test pit excavations. Samples for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

#### 2.3 Soil Laboratory Analytical Results

Analytical laboratory results are summarized in the table below.

Table 1. Soil OVM and Analytical Results, Lateral 6C Release	Table 1.
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			OVM			Ethyl-			ТРН-	ТРН-
Sample	Date	Depth	Result	Benzene	Toluene	benzene	Xylene	BTEX	GRO	DRO
ID	Sampled	(ft)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
						NMOCD AC	tion Level			
			100	10	NE	NE	NE	50	100	100
TP-1 @ 10'	10/11/11	10	2,009	6.2	84	7.8	71	169	1,400	29
TP-2 @ 12'	10/11/11	12	438	<0.047	<0.047	<0.047	<0.094	<0.235	<4.7	<9.8
TP-2 @ 15'	10/11/11	15	1,907	45	200	8.3	260	513	5,000	170
TP-3 @ 10'	10/11/11	10	239	<0.048	<0.048	<0.048	<0.095	<0.239	<4.8	<10
TP-4 @ 12'	10/11/11	12	9.4	<0.050	<0.050	<0.050	<0.10	<0.25	<5.0	<10
TP-4 @ 15'	10/11/11	15	1,875	<0.048	<0.048	0.12	0.50	0.60	20	39

<sup>\*</sup>Note - NE is not established

Total BTEX and TPH-GRO concentrations in sample TP-1 @ 10' exceeded the applicable New Mexico Oil Conservation Division (NMOCD) action levels. Benzene, total BTEX, TPH-GRO, and TPH-DRO concentrations in sample TP-2 @ 15' also exceeded the applicable NMOCD action levels. Although some elevated OVM field screening values were recorded, BTEX and TPH concentrations in the remaining soil samples were either below laboratory detection limits or below applicable NMOCD action levels. Laboratory analytical results for BTEX and TPH are included in Figure 3, and laboratory analytical reports are attached.

#### 3.0 Groundwater Sampling

On October 11, 2011, two groundwater samples were collected from test pits TP-2 and TP-4. Each sample was collected at the first depth at which groundwater entered the excavation (approximately 16 feet bgs).

#### 3.1 Groundwater Laboratory Analyses

The groundwater samples were placed into new, clean, laboratory-supplied vials preserved with hydrochloric acid, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The sample containers were maintained on ice until delivery to the analytical laboratory, Hall, in Albuquerque, New Mexico. The collected samples were laboratory analyzed for:

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

#### 3.2 Groundwater Laboratory Analytical Results

The groundwater sample results are presented below in Table 2.

Table 2. Groundwater Analytical Results, Lateral 6C Release

				,				
_				_	Ethyl-	_	ТРН-	ТРН-
Sample	Date	Depth	Benzene	Toluene	benzene	Xylene	GRO	DRO
ID	Sampled	(ft)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
				W	· ·			
			10	<i>750</i>	<i>750</i>	620	NE	NE
TP-2 Groundwater	10/11/11	16	9,800	15,000	540	6,700	77	4.4
TP-4 Groundwater	10/11/11	16	<50	100	580	3,700	22	180

Dissolved phase benzene, toluene, and xylene concentrations were reported above the New Mexico Water Quality Control Commission (WQCC) standard for groundwater sample TP-2. Dissolved phase xylene concentrations were reported above the WQCC standard for groundwater sample TP-4. In groundwater sample TP-4, benzene was reported with a detection limit that exceeds the WQCC standard. All other compounds were reported below the laboratory detection limit or below the applicable WQCC standards. Laboratory analytical results for BTEX and TPH in groundwater are included in Figure 3, and the laboratory analytical report is attached.

#### 4.0 Conclusions and Recommendations

Based on field observations and laboratory analytical results for the confirmation soil and groundwater samples, AES recommends that Enterprise conduct further delineation of the soil and groundwater contamination in order to determine the most effective remedial method for the release. AES proposes to utilize a tracked GeoProbe<sup>®</sup> tracked direct-push unit to conduct the investigation. The GeoProbe will be used to collect continuous soil samples above the water table. When groundwater is encountered (anticipated at approximately 16 feet bgs), AES will use a peristaltic pump to collect a groundwater sample directly from the soil boring. No monitor wells will be installed as a part of this investigation. AES believes an initial series of seven soil/groundwater investigation locations will be required to evaluate the lateral extent of contamination beyond the original source area and the previously completed soil test pits. A proposed layout for additional soil and groundwater sampling locations is included in Figure 4.

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

Sincerely,

Blaine Watson, P.G.

Blame Watson

Sr. Project Manager

Elizabeth McNally, P.E.

Elizabeth V MeNelly

#### Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Figure 3. Soil and Groundwater Sample Results, October 2011

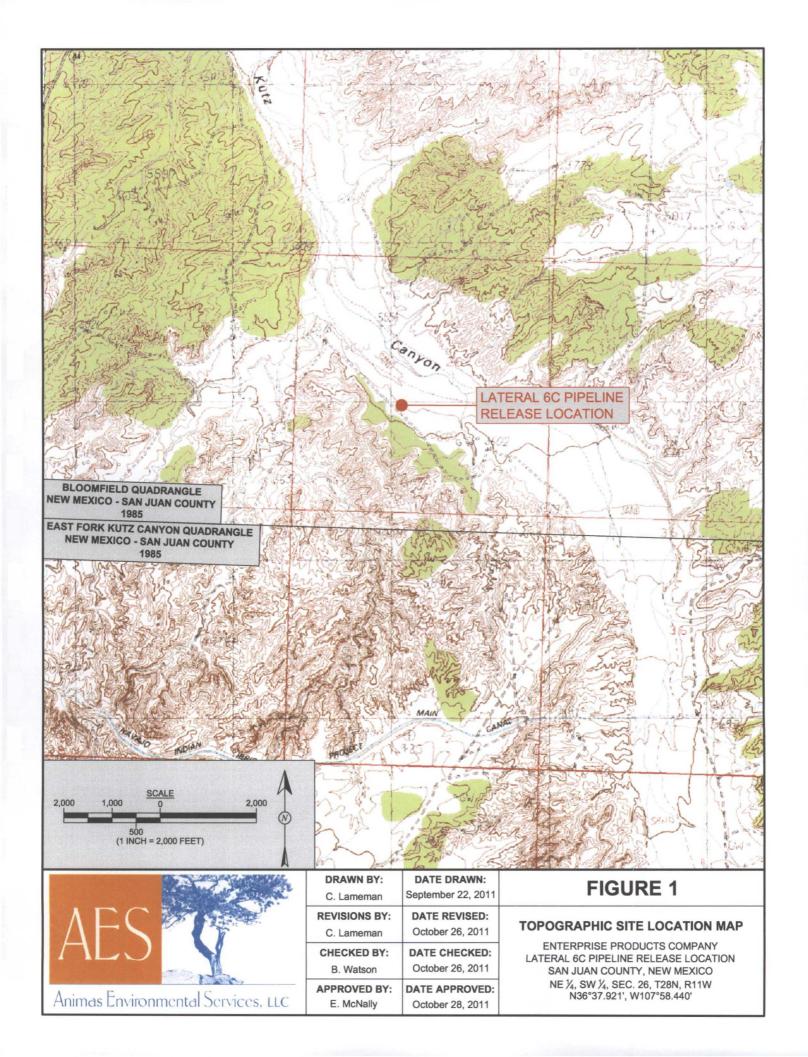
Figure 4. Proposed Investigation Layout

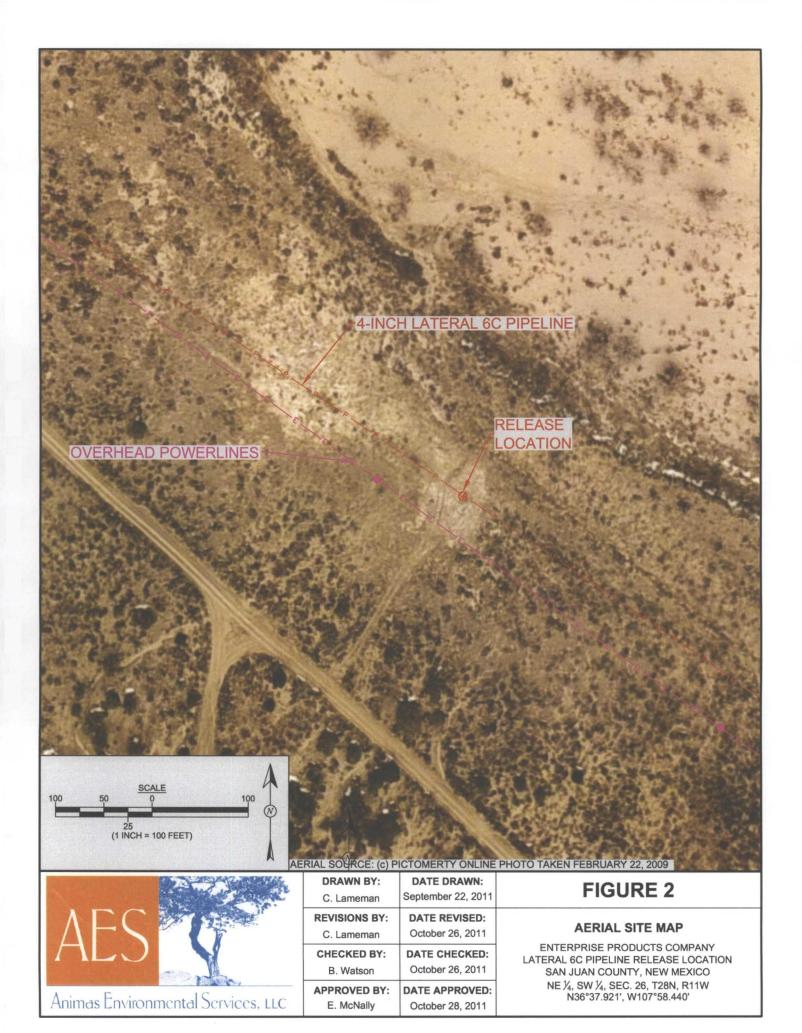
Site Photograph Log

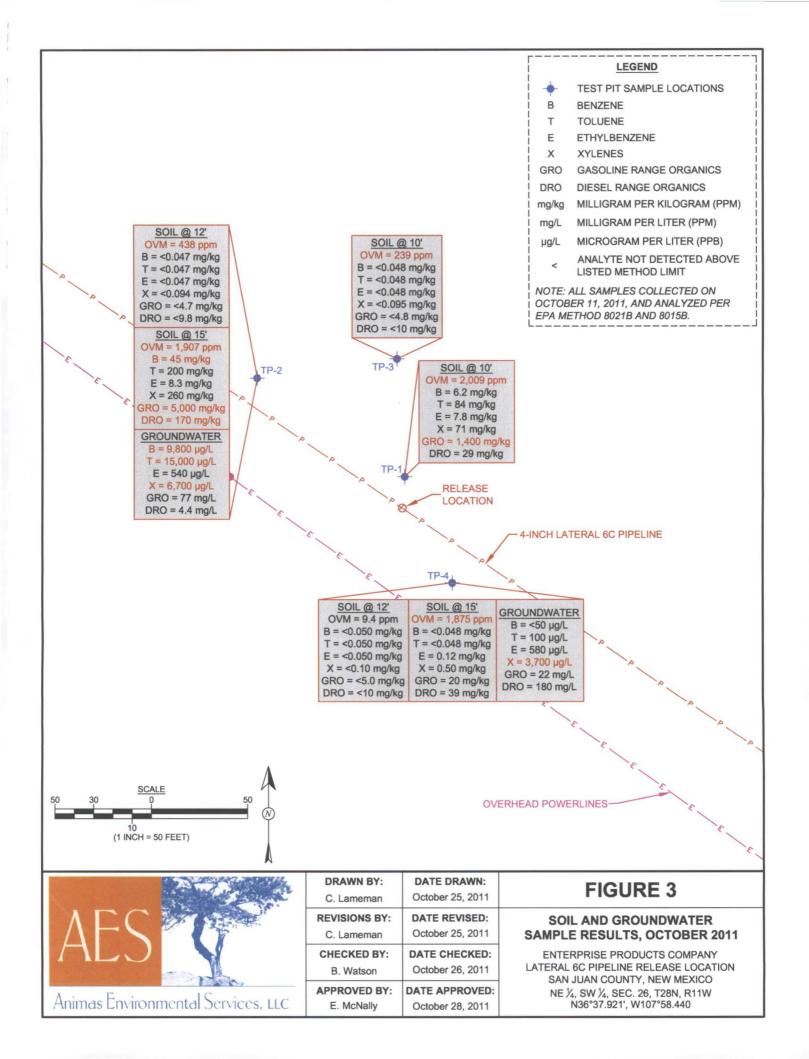
Waste Manifests

**Laboratory Analytical Reports** 

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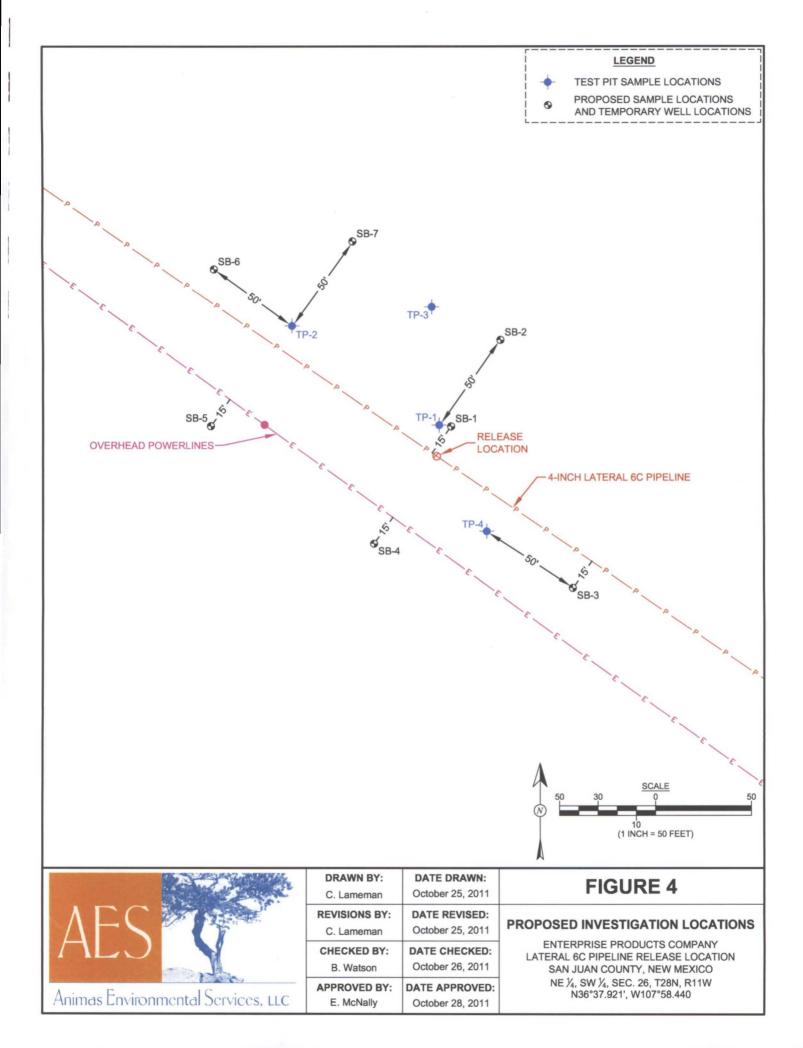


Photo #1

Client:
Enterprise Products
Company

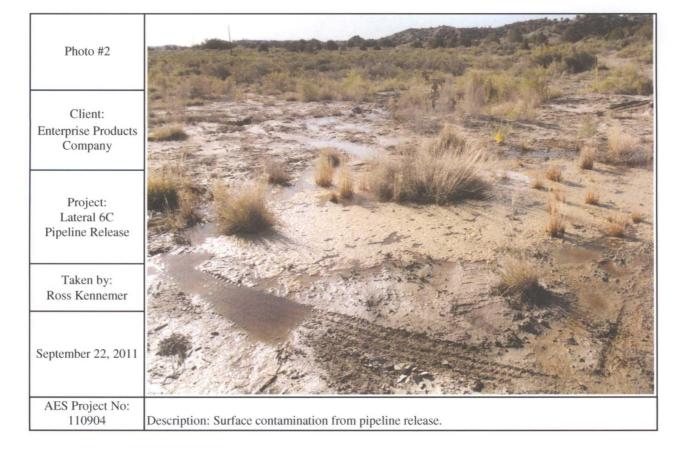
Project:
Lateral 6C
Pipeline Release

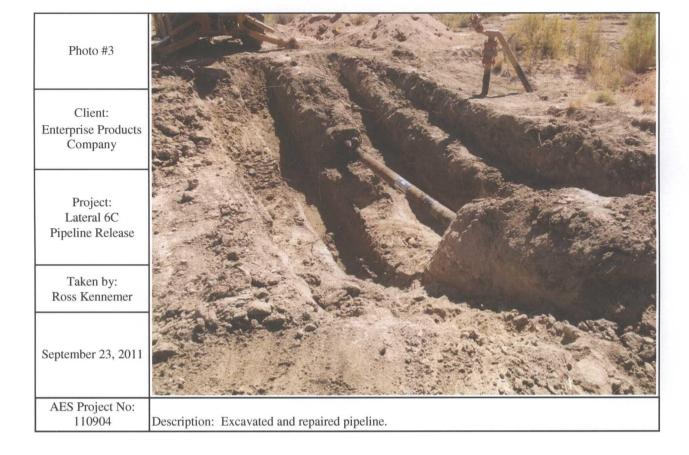
Taken by:
Ross Kennemer

September 22, 2011

AES Project No:
110904

Description: Surface contamination from pipeline release; N 36° 37.921' N; W 107° 58.440.





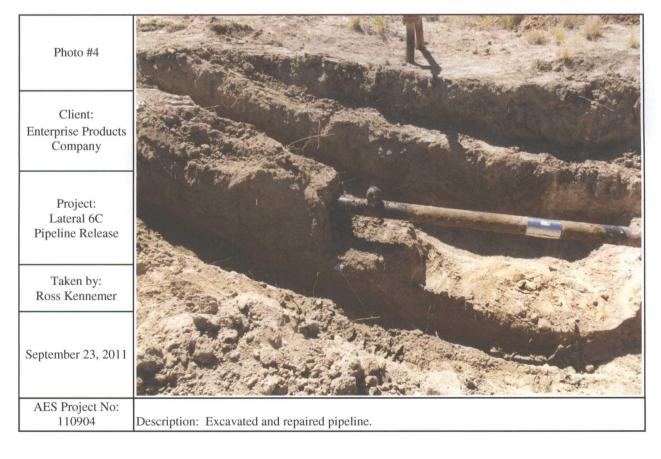


Photo #5

Client:
Enterprise Products
Company

Project:
Lateral 6C
Pipeline Release

Taken by:
Ross Kennemer

October 11, 2011

AES Project No:
110904

Description: Excavation of Test Pit TP-4, up-gradient of pipeline release point.

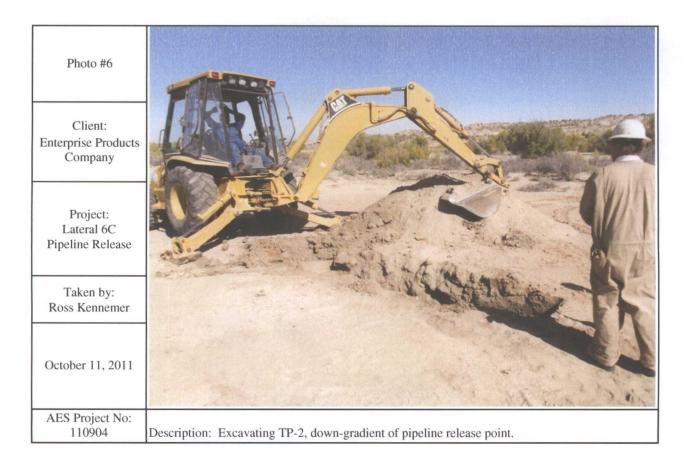


Photo #7	
Client: Enterprise Products Company	
Project: Lateral 6C Pipeline Release	
Taken by: Ross Kennemer	
October 11, 2011	
AES Project No: 110904	Description: Excavating TP-2, down-gradient of pipeline release point. Note stained soils.

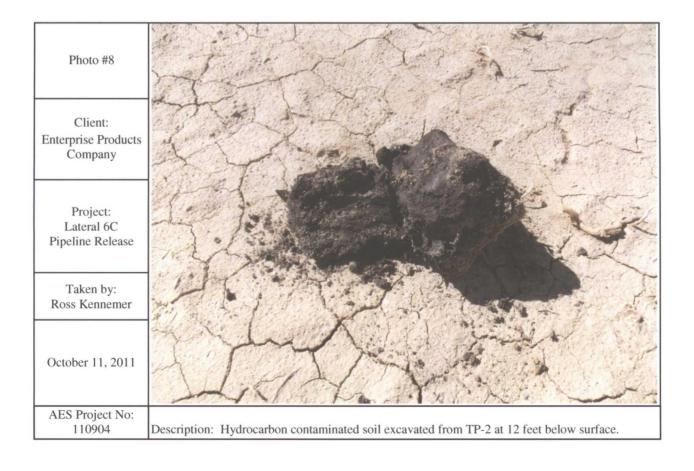


Photo #9

Client:
Enterprise Products
Company

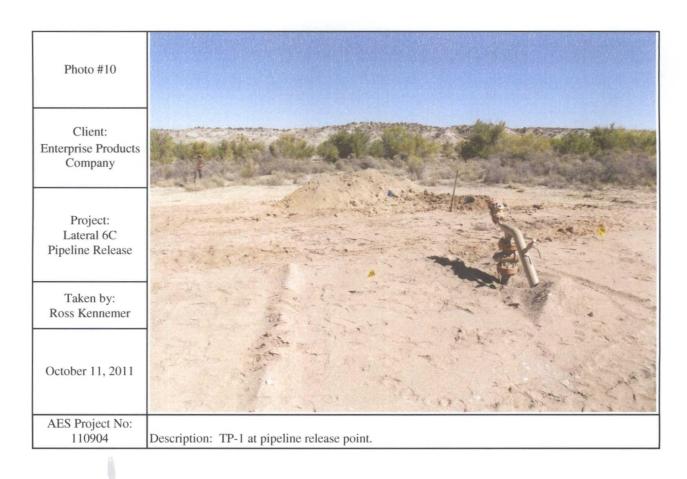
Project:
Lateral 6C
Pipeline Release

Taken by:
Ross Kennemer

October 11, 2011

AES Project No:
110904

Description: Excavating TP-3, down and cross-gradient of pipeline release point.





## **Bill of Lading**

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## Bill of Lading

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#### **COVER LETTER**

Monday, October 24, 2011

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

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

RE: Enterprise Products Co Lateral 6C

Dear Ross Kennemer:

Order No.: 1110780

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 10/13/2011 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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Date: 24-Oct-11 Analytical Report

**CLIENT:** 

Animas Environmental Services

Client Sample ID: TP4 @ 12' BGS

Lab Order:

1110780

Project:

Enterprise Products Co Lateral 6C

Collection Date: 10/11/2011 10:50:00 AM Date Received: 10/13/2011

Lab ID:

1110780-01

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	10/21/2011 2:49:31 AM
Surr: DNOP	105	73.4-123	%REC	1	10/21/2011 2:49:31 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	· 1	10/18/2011 5:28:16 PM
Surr: BFB	96.0	75.2-136	%REC	1	10/18/2011 5:28:16 PM
EPA METHOD 8021B: VOLATILES			•		Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	10/18/2011 5:28:16 PM
Toluene	ND	0.050	mg/Kg	1	10/18/2011 5:28:16 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/18/2011 5:28:16 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/18/2011 5:28:16 PM
Surr: 4-Bromofluorobenzene	86.2	80-120	%REC	. 1	10/18/2011 5:28:16 PM

#### Qualifiers:

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

- Analyte detected in the associated Method Blank В
- 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 I of 8

Date: 24-Oct-11 Analytical Report

CLIENT:

Animas Environmental Services

Lab Order:

1110780

Enterprise Products Co Lateral 6C

Project: Lab ID:

1110780-02

Client Sample ID: TP-2 @ 12' BGS

Collection Date: 10/11/2011 11:10:00 AM

Date Received: 10/13/2011-

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B; DIESEL RANG	E ORGANICS	<del></del>			·	Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/21/2011 4:31:25 AM
Surr: DNOP	98.3	73.4-123		%REC	1	10/21/2011 4:31:25 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/19/2011 3:21:56 PM
Surr: BFB	92.4	75.2-136		%REC	1	10/19/2011 3:21:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	10/19/2011 3:21:56 PM
Toluene	ND	0.047		mg/Kg	1	10/19/2011 3:21:56 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/19/2011 3:21:56 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/19/2011 3:21:56 PM
Surr: 4-Bromofluorobenzene	79.9	80-120	s	%REC	. 1	10/19/2011 3:21:56 PM

#### Qualifiers:

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

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

Page 2 of 8

Date: 24-Oct-11 Analytical Report

CLIENT:

Animas Environmental Services

Lab Order:

1110780

Enterprise Products Co Lateral 6C

Project: Lab ID:

1110780-03

Client Sample ID: TP-3 @ 10' BGS

Collection Date: 10/11/2011 11:30:00 AM

Date Received: 10/13/2011

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS			<del></del>		Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/21/2011 5:40:47 AM
Surr: DNOP	99.7	73.4-123		%REC	1	10/21/2011 5:40:47 AM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1 .	10/20/2011 1:53:14 PM
Surr: BFB	93.8	75.2-136		%REC	1	10/20/2011 1:53:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	10/20/2011 1:53:14 PM
Toluene	ND	0.048		mg/Kg	1	10/20/2011 1:53:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2011 1:53:14 PM
Xylenes, Total	ND	0.095		mg/Kg	1	10/20/2011 1:53:14 PM
Surr: 4-Bromofluorobenzene	79.0	80-120	S	%REC	1	10/20/2011 1:53:14 PM

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- E 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
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

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Date: 24-Oct-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: TP-1 @ 10' BGS

Lab Order:

1110780

ent sample ib. 11-1 @ 10 bos

Project:

Enterprise Products Co Lateral 6C

Collection Date: 10/11/2011 12:05:00 PM Date Received: 10/13/2011

Lab ID:

1110780-04

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JB
Diesel Range Organics (DRO)	29	9.7	mg/Kg	1	10/21/2011 6:15:24 AM
Surr: DNOP	99.7	73.4-123	%REC .	1	10/21/2011 6:15:24 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	1400	240	mg/Kg	50	10/18/2011 7:03:30 PM
Surr: BFB	112	75.2-136	%REC	50	10/18/2011 7:03:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	6.2	2.4	mg/Kg	50	10/18/2011 7:03:30 PM
Toluene	84	2.4	mg/Kg	50	10/18/2011 7:03:30 PM
Ethylbenzene	7.8	2.4	mg/Kg	50	10/18/2011 7:03:30 PM
Xylenes, Total	71	4.9	mg/Kg	50	10/18/2011 7:03:30 PM
Surr: 4-Bromofluorobenzene	91.4	80-120	%REC	50	10/18/2011 7:03:30 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 4 of 8

Date: 24-Oct-11 Analytical Report

CLIENT:

**Animas Environmental Services** 

Lab Order:

1110780

Project:

Enterprise Products Co Lateral 6C Lab ID: 1110780-05

Client Sample ID: TP-2 @ 15' BGS

Collection Date: 10/11/2011 1:46:00 PM

Date Received: 10/13/2011

Matrix: SOIL

Analyses	Result	PQL	Qual L	<b>Jnits</b>	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JB
Diesel Range Organics (DRO)	170	10	n	ng/Kg	1	10/21/2011 6:50:02 AM
Surr: DNOP	111	73.4-123	%	6REC	1	10/21/2011 6:50:02 AM
EPA METHOD 8015B: GASOLINE RA	NGE			•		Analyst: RAA
Gasoline Range Organics (GRO)	5000	470	. m	ng/Kg	100	10/18/2011 7:33:21 PM
Surr: BFB	129	75.2-136	%	6REC	100	10/18/2011 7:33:21 PM
EPA METHOD 8021B: VOLATILES			•			Analyst: RAA
Benzene ·	45	4.7	m	ng/Kg	100	10/18/2011 7:33:21 PM
Toluene	200	4.7	m	ng/Kg	100	10/18/2011 7:33:21 PM
Ethylbenzene	8.3	4.7	m	ng/Kg	100	10/18/2011 7:33:21 PM
Xylenes, Total	260	9.4	m	ng/Kg	100	10/18/2011 7:33:21 PM
Surr: 4-Bromofluorobenzene	95.8	80-120	%	REC	100	10/18/2011 7:33:21 PM

#### Qualifiers:

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

- 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
  - Spike recovery outside accepted recovery limits

Page 5 of 8

Date: 24-Oct-11 Analytical Report

CLIENT:

Animas Environmental Services

Lab Order:

1110780

Enterprise Products Co Lateral 6C

Project: Lab ID:

1110780-06

Client Sample ID: TP-4 @ 15' BGS

Collection Date: 10/11/2011 2:00:00 PM

Date Received: 10/13/2011

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		~			Analyst: JB
Diesel Range Organics (DRO)	39	9.9		mg/Kg	1	10/21/2011 7:24:30 AM
Surr: DNOP	93.7	73.4-123		%REC	1	10/21/2011 7:24:30 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: RAA
Gasoline Range Organics (GRO)	20	4.8		mg/Kg	1	10/20/2011 2:23:09 PM
Surr: BFB	170	75.2-136	S	%REC	1	10/20/2011 2:23:09 PM
EPA METHOD 8021B; VOLATILES				-		Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	10/20/2011 2:23:09 PM
Toluene	ND	0.048		mg/Kg	1	10/20/2011 2:23:09 PM
Ethylbenzene	0.12	0.048		mg/Kg	1	10/20/2011 2:23:09 PM
Xylenes, Total	0.50	0.095		mg/Kg	1	10/20/2011 2:23:09 PM
Surr: 4-Bromofluorobenzene	84.3	80-120		%REC	1	10/20/2011 2:23:09 PM

#### Qualifiers:

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

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

Page 6 of 8

Date: 24-Oct-11

Analytical Report

**CLIENT:** 

Animas Environmental Services

Client Sample ID: TP-2 groundwater

Lab Order:

1110780

Collection Date: 10/11/2011 1:57:00 PM

Project:

Enterprise Products Co Lateral 6C

Date Received: 10/13/2011

Lab ID:

1110780-07

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: JB
Diesel Range Organics (DRO)	4.4	1.0	mg/L	1	10/21/2011 2:15:54 AM
Surr: DNOP	106	81.1-147	%REC	1	10/21/2011 2:15:54 AM
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: RAA
Gasoline Range Organics (GRO)	77	2.5	mg/L	50	10/18/2011 11:34:56 PM
Surr: BFB	98.7	65.4-141	%REC	50	10/18/2011 11:34:56 PM
EPA METHOD 8021B: VOLATILES			•		Analyst: RAA
Benzene	9800	200	μg/L	200	10/19/2011 1:34:31 PM
Toluene	15000	200	μg/L	200	10/19/2011 1:34:31 PM
Ethylbenzene	540	200	µg/L	200	10/19/2011 1:34:31 PM
Xylenes, Total	6700	400	µg/L	200	10/19/2011 1:34:31 PM
Surr: 4-Bromofluorobenzene	93.9	76.5-115	%REC	200	10/19/2011 1:34:31 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 8

Date: 24-Oct-11

CLIENT:

Animas Environmental Services

Client Sample ID: TP-4 groundwater

Analytical Report

Lab Order:

1110780

Project:

Collection Date: 10/11/2011 2:15:00 PM

Lab ID:

Enterprise Products Co Lateral 6C 1110780-08

Date Received: 10/13/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	180	10		mg/L	10	10/21/2011 7:58:54 AM
Surr: DNOP	0	81.1-147	S	%REC	10	10/21/2011 7:58:54 AM
EPA METHOD 8015B: GASOLINE RANG	E					Analyst: RAA
Gasoline Range Organics (GRO)	22	2.5		mg/L	50	10/19/2011 12:32:29 AM
Surr: BFB	120	65.4-141		%REC	50	10/19/2011 12:32:29 AM
EPA METHOD 8021B: VOLATILES	•					Analyst: RAA
Benzene	ND	50		µg/L	5 <b>0</b>	10/19/2011 12:32:29 AM
Toluene	100	50		μg/L	50	10/19/2011 12:32:29 AM
Ethylbenzene	580	50	•	μg/L	50	10/19/2011 12:32:29 AM
Xylenes, Total	3700	100		µg/L	50	10/19/2011 12:32:29 AM
Surr: 4-Bromofluorobenzene	103	76.5-115		%REC	50	10/19/2011 12:32:29 AM

#### Qualifiers:

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

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

## QA/QC SUMMARY REPORT

Client:

Animas Environmental Services

Project: Enterprise Products Co Lateral 6C

Work Order:

1110780

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec l	owLimit Hi	ghLimit %RP[	D RPDLimit	Qual
Method: EPA Method 8015B: I Sample ID: 1110780-01AMSD	Diesel Range	e Organics <i>MSD</i>		,		Batch ID:	28938	Analysis Date:	10/21/2011	3:56:42 AN
Diesel Range Organics (DRO) Sample ID: MB-28938	43.97	mg/Kg <i>MBLK</i>	9.9	49.36	4.815	79.3 Batch ID:	61.9 <b>28938</b>	125 11.2 Analysis Date:	22.3 -10/18/2011	2:26:23 PN
Diesel Range Organics (DRO) Sample ID: LCS-28938	ND	mg/Kg LCS	10			Batch ID:	28938	Analysis Date:	10/18/2011	2:51:17 PN
Diesel Range Organics (DRO) Sample ID: 1110780-01AMS	59.50	mg/Kg <i>MS</i>	10	50	0	119 Batch ID:	66.7 <b>28938</b>	119 Analysis Date:	10/21/2011	3:23:06 AN
Diesel Range Organics (DRO)	49.18	mg/Kg	10 .	50.05	4.815	88.6	61.9	125		
Method: EPA Method 8015B; [ Sample ID: MB-28936		MBLK				Batch ID:	28936	Analysis Date:	10/21/2011 1	2:57:29 AN
Diesel Range Organics (DRO) Sample ID: LCS-28936	ND	mg/L LCS	1.0			Batch ID:	28936	Analysis Date:	10/21/2011	1:26:01 AN
Diesel Range Organics (DRO) Sample ID: LCSD-28936	2.617	mg/L LCSD	1.0	2.5	0	105 Batch ID:	74 28936	157 Analysis Date:	10/21/2011	1:55:14 AN
Diesel Range Organics (DRO)	2.165	mg/L	1.0	2.5	0	86.6	74	157 18.9	23	
Method: EPA Method 8015B: G Sample ID: 5ML-RB	Sasoline Ran	MBLK				Batch ID:	R48488	Analysis Date:	10/18/2011	9:51:53 AM
Gasoline Range Organics (GRO)  Gample ID: MB-28931	ND	mg/Kg <i>MBLK</i>	5.0			Batch ID:	28931	Analysis Date:	10/18/2011	2:28:30 PN
Gasoline Range Organics (GRO)  Gample ID: 5ML-RB	ND	mg/Kg <i>MBLK</i>	5.0			Batch ID:	R48530	Analysis Date:	10/19/2011 10	D:31:25 AN
Gasoline Range Organics (GRO)  Sample ID: 2.5 GRO LCS	ND	mg/Kg LCS	5.0			Batch ID:	R48488	Analysis Date:	10/18/2011 1	1:18:36 AN
Gasoline Range Organics (GRO)  Sample ID: LCS-28931	26.72	mg/Kg <i>LCS</i>	5.0	25	0	107 Batch ID:	86.4 <b>28931</b>	132 Analysis Date:	10/18/2011 1	:28:21 PN
Sasoline Range Organics (GRO) Sample ID: 2.5 GRO LCS	28.69	mg/Kg LCS	5.0	25	0	115 Batch ID:	86.4 <b>R48530</b>	132 Analysis Date:	10/19/2011 12	2:07:58 PM
Basoline Range Organics (GRO)	26.42	mg/Kg	5.0	25	0	106	86.4	132		
lethod: EPA Method 8015B: G	asoline Ran	•								
ample ID: 1110780-07A MSD		MSD				Batch ID:	R48488	Analysis Date:	10/19/2011 1	:58:48 AM
Sasoline Range Organics (GRO) Sample ID: 5ML-RB	97.22	mg/L MBLK	2.5	25	77.01	80.8 Batch ID:	66.1 <b>R48488</b>	127 7.47 Analysis Date:	15.5 10/18/2011 9	:51:53 AM
Sasoline Range Organics (GRO) sample ID: 2.5 GRO LCS	ND	mg/L LCS	0.050			Batch ID:	R48488	Analysis Date:	10/18/2011 11	:18:36 AM
asoline Range Organics (GRO) ample ID: 1110780-07A MS	0.5344	mg/L MS	0.050	0.5	0	107 Batch ID:	92.1 R48488	117 Analysis Date:	10/19/2011 1	:30:00 AM
Gasoline Range Organics (GRO)	104.8	mg/L	2.5	25	77.01	111	66.1	127		

Quali	fiers
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E Estimated value

Page 1

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

Date: 24-Oct-11

## QA/QC SUMMARY REPORT

Client:

Animas Environmental Services

Project: Enterprise Products Co Lateral 6C

Work Order:

1110780

Troject.									WUIK	Oruer:	1110/80
Analyte	Result	Units	PQL	SPK V	a SPK ref	%Rec L	.owLimit Hi	ighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B:	Volatiles	-						-			,
Sample ID: 1110780-01AMSD		MSD				Batch ID:	28931	Analysi	is Date:	10/19/2011 1	2:34:18 AN
Benzene	0.9411	mg/Kg	0.050	0.990	0	95.1	67.2	113	0.842	14.3	
Toluene	0.8647	mg/Kg	0.050	0.990	0	87.3	62.1	116	1.92	15.9	
Ethylbenzene	0.9431	mg/Kg	0.050	0.990	0	95.3	67.9	127	0.748	14.4	
Xylenes, Total	2.840	mg/Kg	0.099	2.97	0	95.6	60.6	134	0.995	12.6	
Sample ID: 5ML-RB		MBLK				Batch ID:	R48488	Analysi	s Date:	10/18/2011	9:51:53 AN
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: MB-28931		MBLK		•		Batch ID:	28931	Analysi	s Date:	10/18/2011	2:28:30 PM
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								•
Ethylbenzene	ND	mg/K <b>g</b>	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R48488	Analysi	s Date:	10/18/2011	6:46:44 PM
Benzene	0.9228	mg/Kg	0.050	1	0.0139	90.9	83.3	107			
Toluene :	0.9042	mg/Kg	0.050	1	0	90.4	74.3	115			
Ethylbenzene	0.9076	mg/Kg	0.050	1	0	90.8	80.9	122			
Xylenes, Total	2.712	mg/Kg	0.10	3	0	90.4	85.2	123			
Sample ID: LCS-28931		LCS		•		Batch ID:	28931	Analysi	s Date:	10/18/2011	1:58:28 PM
Benzene	0.9082	mg/Kg	0.050	1	0.0168	89.1	83.3	107			
Toluene	0.8359	mg/Kg	0.050	1	0	83.6	74.3	115			
Ethylbenzene	0.9127	mg/Kg	0.050	1	0	91.3	80.9	1 <b>2</b> 2			
Xylenes, Total	2.782	mg/Kg	0.10	3	0	92.7	85.2	123			
Sample ID: 1110780-01AMS		MS .				Batch ID:	28931	Analysis	s Date:	10/19/2011 12	2:04:31 AM
Benzene	0.9332	mg/Kg	0.050	0.997	0	93.6	67.2	113			
Toluene	0.8815	mg/Kg	0.050	0.997	0	88.4	62.1	116			
Ethylbenzene	0.9501	mg/Kg	0.050	0.997	. 0	95.3	67.9	127			
Xylenes, Total	2.869	mg/Kg	0.10	2.991	0	95.9	60.6	134			

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E Estimated value

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 2

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

## QA/QC SUMMARY REPORT

Client:

Animas Environmental Services

Project: Enterprise Products Co Lateral 6C

Work Order:

1110780

Analyte	Result	Units	PQL	SPK V	a SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	
Method: EPA Method 8021B: \	/olatiles										1.
Sample ID: 1110780-08A MSD	•	MSD				Batch ID:	R48488	Analys	is Date:	10/19/2011	2:56:20 AM
Benzene	869.5	μg/L	50	1000	15.73	85.4	76.6	119	11.8	16.4	
Toluene	933.8	μg/L	50	1000	102.2	83.2	77.3	118	11.8	13.9	
Ethylbenzene	1365	µg/L	50	1000	579.7	78.5	76.6	114	8.57	13.5	
Xylenes, Total	5744	μg/L	100	3000	3718	67.5	82	113	9.53	12.9	S
Sample ID: 5ML-RB		MBLK				Batch ID:	R48488	Analysi	is Date:	10/18/2011	9:51:53 AM
Benzene	ND	μg/L	1.0								
Toluene	ND	μg/L	1.0			-					
Ethylbenzene	ND	μg/L	1.0								
Xylenes, Total	ND	μg/L	2.0								
Sample ID: 5ML-RB		MBLK				Batch ID:	R48530	Analysi	is Date:	10/19/2011 10	D:31:25 AM
Benzene	ND	μg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	μg/L	1.0	•							
Xylenes, Total	ND	μg/L	2.0							•	
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R48488	Analysi	is Date:	10/18/2011	6:46:44 PM
Benzene	18.46	μg/L	1.0	20	0	92.3	80	120			
Toluene	18.08	μg/L	1.0	20	0	90.4	80	120			
Ethylbenzene	18.15	μg/L	1.0	20	0	90.8	80	120			
Xylenes, Total	54.25	µg/L	2.0	60	0	90.4	80	120			
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R48530	Analysi	s Date:	10/19/2011 11	:33:34 PM
Benzene	19.28	μg/L	1.0	20	0.2698	95.1	80	120			
Toluene	18.94	μg/L	1.0	20	0	94.7	80	120			
Ethylbenzene	18.98	μg/L	1.0	20	0	94.9	80	120		•	
Xylenes, Total	56.18	μg/L	2.0	60	0	93.6	80	120			
Sample ID: 1110780-08A MS		MS				Batch ID:	R48488	Analysi	s Date:	10/19/2011 2	2:27:35 AM
Benzene	978.4	µg/L	50	1000	15.73	96.3	76.6	119		•	
Toluene	1051	μg/L	50	1000	102.2	94.9	77.3	118			
Ethylbenzene	1487	μg/L	50	1000	579.7	90.8	76.6	114			
Kylenes, Total	6320	μg/L	100	3000	3718	86.7	82	113			

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E Estimated value

ND Not Detected at the Reporting Limit

NC Non-Chlorinated

R RPD outside accepted recovery limits

Page 3

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

#### Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL			Date Recei	ived:		10/13/2011
Work Order Number 1110780			Received	by: AT		<i>A</i>
			Sample II	D labels checked	by:	I()
Checklist completed by:		Date	0[[3][[			Initials
Matrix: Carrier name:	Cour	<u>ier</u>				•
Shipping container/cooler in good condition?	Yes	$ \checkmark $	No 🗔	Not Present		
Custody seals intact on shipping container/cooler?	Yes	V	No 🗌	Not Present		Not Shipped
Custody seals intact on sample bottles?	Yes		No 🗆	N/A	V	
Chain of custody present?	Yes	$\checkmark$	No 🗆			
Chain of custody signed when relinquished and received?	Yes	$ \checkmark $	No 🗌			
Chain of custody agrees with sample labels?	Yes	$ \mathbf{V} $	No 🗌			
Samples in proper container/bottle?	Yes	$\checkmark$	No 🗀			
Sample containers intact?	Yes	V	No 🗌			
Sufficient sample volume for indicated test?	Yes	$\checkmark$	No 🗌			
All samples received within holding time?	Yes	<b>/</b>	No 🗆			Number of preserved
Water - VOA vials have zero headspace? No VOA vials sub	mitted		Yes 🗹	No 🗌		bottles checked for pH:
Water - Preservation labels on bottle and cap match?	Yes		No 🗌	N/A 🗹		
Water - pH acceptable upon receipt?	Yes		No 🗆	N/A 🗹		<2 >12 unless noted
Container/Temp Blank temperature?	1.6	5°	<6° C Accepta	able		below.
COMMENTS:			If given sufficie	ent time to cool.		·
				=====	=	
Client contacted Date contacted:			Pe	erson contacted		
Contacted by: Regarding:		51. 57				
Comments:						
						<del></del>
						· · · · · · · · · · · · · · · · · · ·
Corrective Action						
Fig. 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -						

C	hain-	of-Cu	islouy Necolu	Turn-Around	Time:									. II X #				4 E R	177.4		
Client:	nimas	Envi	ormental		□ Rush					_ _						-			ITA FOF		
				Project Name	e Products	Compani						v.hai									
Mailing	Address:	624	G. Comarche	Late	ral 6	} ' '	٠		490	1 Hav								109			
Fac	Wint	1/ N	N \$7401	Project #:						. 505-					-		4107				
Phone :	#/50g	5-14	1-2281	1									_	/sis l			· '				
				Project Mana	ger:				<u>(Ş</u>	sel)				)4)							٦
QA/QC F	Package: dard		☐ Level 4 (Full Validation)	Ross	Kenne n Kenn	mer		ETMB's (8021)	+ TPH (Gas only)	(Gas/Diesel)				PO4,SC	PCB's			74			i
Accredi				Sampler:	n Kenn	~			표	9 6	= =	<b>₽</b>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	808					9	<u>,</u>
□ NEL		□ Othe	er	On Ices 4	©AYes	E-Nobels				5 3	504.1)	PA	S	03,1	18		8	လွ			5
	(Type) _	<del></del>	<del></del>	Sample tem	erarmez <i>[[.</i>			Ħ	間	8 J	g   g	o	letal	5	clde	<u></u>	ا جُ	6		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>.</u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type			BTEX <del>- MTDE</del>	BTEX + MTBE	TPH Method 8015B	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	6RO DRO		Air Bubbles (Y or N)	֭֡֝֝֝֜֝֝֝֟֝֝֟֝֝֟֝֝֟֝֝֟֝֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
10-11-11	1050	Soil	TP-40 12' B65	402	40€		-	X										X			_
	1110	\_	TP-2012' B65				-2	X										X			_
	1130		TP-30 10 B65				-3	X	·									X			_
	13 ož		TP-10 10' B65				-4	Ż										义			
	1346		TR-20 15'865				-5	X										X			
	1400	I	TP-40 151B65	L			-6	X										V			
			TP-2 groundwater	5 40 m 1	4ºc/ HCI		-7	X										<u>X</u>			
I	1415	بد	TP-4 groundwater				-8	X										X			
			0															<u></u>			
												]									
Date: <b>0ー</b> (スー) (	Time:	Relinquist	ned by	Received by:	is 1, Jon to	Date 1	ime 1447	Ren	narks	I	·~/	ع 100	e.	F	<b>5</b>	En	se.	bus	e,		
Date:	Time:	Relinquish	ned by:	Received by	L.		ime 250														
12/11	1332	samoles sut	omitted to Hall Environmental may be subo	contracted to other a	Ccredited laboratorie	2 1/3/1/ es.: This serves as	/ 2:50)	s possi	hility 4	inv sub-	contract	ed data	will be	e clear	lv nota	ited or	n the au	nalytical	report.		_